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ABSTRACT

A comparison of the statistical data presented for 1979-80 and the data for the 75 libraries that were members in 1969-70 reveals a 91 percent increase in expenditures for library materials over the decade, while the gross number of volumes added yearly decreased by 22.5 percent. Library staff size has risen slightly over the decade, while salaries have more than doubled. The median number of volumes has increased by 44 percent since 1969-70 and microform units increased by 216 percent. Operating expenses have more than doubled over the past ten years. These and other conclusions are supported by seven chapters of tabular data and include the ARL statistics questionnaire, footnotes to the statistics, and a listing of ARL statistical compilations. (RAA)

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ARL STATISTICS

1979-80

A COMPILATION OF STATISTICS FROM THE ONE HUNDRED AND ELEVEN MEMBERS OF THE ASSOCIATION OF RESEARCH LIBRARIES

Compiled by
Carol A. Mandel
and
Mary P. Johnson

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ASSOCIATION OF RESEARCH LIBRARIES
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INTRODUCTION

The 1979-80 ARL Statistics presents data compiled from the 111 research libraries that were members of the Association during the 1979-80 academic year. The University of Saskatchewan Library joined ARL in 1980; its figures are included in the Statistics for the first time this year.

The 1979-80 Statistics completes the ARL data set for a decade plagued by inflation and other financial problems in higher education. Predictions made during the 1970's that research library growth would slow while expenditures continued to rise are confirmed by comparing the median figures for 1969-70 with those for 1979-80 of the 75 academic libraries that were members of the ARL during both periods[1]. The data for these 75 ARL libraries reveal that:

- Expenditures for library materials (e.g. books, serials) increased by 91% over the decade. During the same period, the gross number of volumes added each year to the collections decreased by 22.5%. These 75 libraries are spending almost twice as much for materials but are acquiring and/or cataloging considerably less than they were in 1969-70.
- Library staff size has grown only slightly over the decade: the median figures show a 11.5% rise in number of nonprofessional staff and no increase in the number of professional staff. Expenditures for salaries and wages, on the other hand, have more than doubled — the medians display an increase of 106%.
- The median number of volumes held by these libraries has increased by 44% since 1969-70 and the rate of growth has slowed: the increase in volumes held from 1968-69 to 1969-70 was 7%; between 1978-79 and 1979-80 the growth rate was only 2.9%. The average annual growth rate in volumes held for the 58 ARL libraries studied by Baumol and Marcus[2] for the period 1950-51 to 1968-69 was 4.2%. For the smaller libraries in this group of 58 (newer ARL members tend to be more similar to these libraries) the growth rate was 5.4%.
- While the number of volumes grew slowly, the median number of microform units held by the 75 libraries increased by 216%.
- Operating expenditures doubled over the 1970's — the median figures for the 75 research libraries display an increase of 106%.

The trends observed for the entire decade are also apparent in the changes observed in the medians for the total ARL membership since the publication of the 1978-79 ARL Statistics.

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[1] For some variables, the median figure for 1969-70 is for 76 libraries, including St. Louis University which was not an ARL member in 1979-80.

[2] William J. Baumol and Matityahu Marcus, Economics of Academic Libraries (Washington, D.C.: American Council on Education, 1973).

- While total staff size remained constant from 1978-79 to 1979-80, expenditures for salaries and wages increased by 9.8%.

- Outlays for materials increased 5.4% while the gross number of volumes added decreased 8.8%.

- The number of volumes held increased by 2.9% (the same growth rate displayed by the subset of 75 libraries already described). Total operating expenditures were 4.1% higher.

When comparing this year's ARL data with that of previous years, several changes in reporting practices made in 1979-80 should be noted. First, the expenditure figures for Canadian libraries are expressed in U.S. dollars for the first time this year. Because expenditures for ARL's 11 Canadian members have been discounted slightly,[3] median and total expenditures may appear to have a slightly slower rate of increase and the position of some Canadian libraries in the rank order tables for expenditures has shifted. (To correct for this in the trends noted above, converted figures for Canadian expenditures in 1969-70 and in 1978-79 were used so that the data would be comparable to 1979-80 expenditures.) Second, libraries have been asked not to report figures for branch campus libraries if possible. Several libraries have thus changed their reporting base and their figures are lower than in previous years. Two libraries did include branch campuses in their reports. (Detailed information is given in the Footnotes to the Statistics.) Finally, while the ARL definition for serials titles has always included government documents, this definition was made explicit in the instructions for the 1979-80 questionnaire. As a result, several libraries changed their reporting base for current serials titles. (Approximately 1,069 serials titles are included in the set of U.S. government documents distributed to full depository libraries.)

A new section has been added to the ARL Statistics this year. The Committee on ARL Statistics has developed the ARL Library Index to provide a summary measure of a university library's relative size within the Association. The index summarizes data in ten of the categories reported to ARL into a single score, providing a better general characterization of overall library size than any one of the categories. The index is described on pages 23-24 and index scores for 1979-80 are presented on page 25.

The rank order tables and index scores presented in this publication are in no way intended to imply qualitative evaluations of the institutions described. In comparing any individual library to ARL medians or to other ARL institutions, evaluations must always be made within the context of local goals and characteristics.

Carol A. Mandel
ARL Associate Executive Director
December 15, 1980

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[3] The rate used is 1.1689 Canadian dollars to one U.S. dollar, the average monthly noon exchange rate published in the Bank of Canada Review for the period July 1979 to June 1980. Expenditures expressed in Canadian dollars are given in the Footnotes to the Statistics.

ARL Library Data Table

	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
LIBRARY CODE NO.	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
1 +CL	1,123,802	40,189	36,717	796,351	12,511	2,213	975	3,188	1,636	1,173	2,809
2+CLM	2,066,444	90,090	85,921	1,401,446	14,330	3,031	5,472	8,503	2,042	2,546	4,546
3+CLM	2,540,839	119,903	113,268	1,750,874	28,350	7,206	15,100	22,306	1,923	2,182	4,105
4 +C	1,468,650	97,150	84,022	1,119,174	17,716	5,366	3,074	8,440	3,783	2,466	6,249
5+CLM	1,314,742	45,177	27,124	1,198,053	22,962	4,948	4,691	9,639	4,101	4,068	8,169
6 +C	1,464,218	55,811	53,259	788,661	17,009	2,825	1,417	4,242	2,115	2,551	4,666
7+CLM	2,107,463	92,313	88,598	2,297,793	33,011	10,913	13,129	24,042	3,647	4,528	8,175
8 +*C	1,671,414	36,691	35,208	625,608	14,145	1,556	3,030	4,586	1,101	524	1,625
9 +CL	5,753,731	169,922	156,577	1,569,956	102,199	11,642	15,099	26,741	6,641	3,347	9,988
10 +*LM	1,606,266	85,089	80,722	1,489,430	42,759	12,005	18,788	30,793	2,656	1,744	4,400
11+CLM	4,234,835	139,068	126,153	1,806,105	58,750	11,951	30,799	42,750	5,574	2,001	7,575
12 +C	983,200	36,150	35,502	770,993	14,010	1,635	1,526	3,161	2,605	4,359	6,964
13 CM	1,378,955	57,624	46,430	716,715	26,743	5,288	12,247	17,535	3,296	2,332	5,628
14 C	1,375,227	52,414	50,164	1,530,625	18,675	827	1,473	2,300	4,252	3,828	8,080
15+CLM	1,368,366	27,311	21,902	388,821	13,560	16,362	29,671	46,033	2,525	2,301	4,826
16+CLM	4,310,824	144,844	127,886	743,893	42,121	2,868	19,737	22,605	2,395	428	2,823
17 LM	1,254,306	53,050	49,706	960,357	17,509	6,144	10,851	16,995	3,751	5,740	9,491
18 CL	1,852,904	43,584	41,023	1,983,890	12,690	3,955	6,933	10,888	3,351	2,727	6,078
19 +C	1,232,923	53,139	46,509	536,513	16,781	3,971	7,811	11,782	2,437	2,713	5,150
20 CLM	5,016,460	119,830	91,991	2,135,332	58,697	10,055	13,518	23,573	N/A	N/A	27,083
21+CLM	1,657,850	65,179	61,923	1,245,012	15,308	5,458	11,723	17,181	2,791	4,112	6,903
22 +CL	4,216,915	119,880	111,713	2,239,135	55,204	6,898	9,878	16,776	1,190	521	1,711
23 +CM	1,390,717	46,747	42,979	860,692	17,553	4,123	3,695	7,818	1,814	2,033	3,847
24 +*CLM	3,085,654	67,742	62,815	739,291	27,387	6,861	15,899	22,760	1,607	1,404	3,011
25 +LM	1,636,344	51,815	48,186	937,880	15,223	4,924	9,102	14,026	1,721	2,131	3,852

+ - See Footnotes
* - Bibliographic count

C - Includes figures for main campus only
N/A - Figures not available

L - Includes Law Library
M - Includes Medical Library

ARL Library Data Table

LIBRARY CODE NO.	EXPENDITURES							PERSONNEL (FTE)			
	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
1	1,021,860	641,472	73,326	1,095,186	1,464,678	295,159	2,855,023	43	57	58	158
2	2,276,681	815,414	141,868	2,418,549	4,708,848	344,476	7,471,873	80	290	32	402
3	3,195,570	1,390,180	212,121	3,407,691	3,198,701	805,728	7,412,120	81	178	87	346
4	1,811,764	967,020	138,451	1,950,215	2,126,024	342,390	4,418,629	46	110	70	226
5	1,514,162	812,636	83,262	1,597,424	2,389,731	498,496	4,485,651	65	143	54	262
6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	66	53	160	279
7	2,457,842	N/A	167,274	2,625,116	6,183,584	680,457	9,489,157	107	320	60	487
8	1,136,000	246,125	62,418	1,198,418	1,820,291	361,821	3,380,530	44	95	41	180
9	3,391,896	1,592,166	387,704	3,779,600	8,970,402	1,692,478	14,442,480	141	249	212	602
10	2,218,189	1,410,500	218,119	2,436,308	4,408,212	807,145	7,651,665	66	170	48	284
11	3,367,344	1,622,547	429,009	3,796,353	8,705,346	2,026,007	14,527,706	N/A	N/A	N/A	N/A
12	1,227,884	554,076	110,267	1,338,151	2,102,294	580,968	4,021,413	33	95	22	150
13	1,791,551	852,634	158,234	1,949,785	3,710,557	795,838	6,456,180	50	146	49	245
14	1,633,949	807,046	144,821	1,778,770	3,559,575	575,499	5,913,844	54	140	70	264
15	951,442	776,485	65,369	1,016,811	1,860,366	280,554	3,157,731	61	90	31	182
16	1,935,783	1,109,960	254,838	2,190,621	3,703,690	1,165,157	7,059,468	70	146	71	287
17	1,637,405	683,396	83,722	1,721,128	3,152,741	701,402	5,575,272	62	167	64	293
18	1,039,934	700,602	59,913	1,099,847	2,374,802	231,502	3,706,151	42	99	33	174
19	874,798	617,072	73,817	948,615	1,884,093	424,463	3,257,171	46	72	20	138
20	2,756,222	1,506,207	205,535	2,961,757	7,514,383	1,183,933	11,660,073	139	282	100	521
21	1,470,850	742,913	89,248	1,560,098	2,470,939	359,772	4,390,809	54	98	64	216
22	2,858,687	N/A	215,458	3,074,145	5,426,938	1,055,024	9,556,107	140	295	73	508
23	1,161,501	762,622	47,198	1,208,699	1,473,822	380,549	3,063,070	35	98	25	158
24	2,010,336	1,253,263	135,614	2,145,950	3,235,199	624,704	6,005,853	86	173	69	328
25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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						LOANED			BORROWED		
LIBRARY CODE NO.	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
26 CLM	2,162,982	84,840	83,638	1,657,092	31,221	3,608	14,191	17,799	2,220	6,280	8,500
27 +CL	1,393,156	57,051	54,455	1,912,699	13,796	3,804	2,364	6,168	2,758	8,854	11,612
28 +LM	1,245,615	56,036	53,262	747,752	17,201	2,273	3,370	5,643	1,247	1,879	3,126
29 L	1,985,646	93,818	91,749	1,859,981	32,085	10,319	12,409	22,728	4,317	1,954	6,271
30 +*C	1,154,539	74,992	71,621	698,970	8,528	284	1,671	1,955	1,085	2,086	3,171
31+CLM	10,082,663	210,448	168,671	2,101,575	94,000	6,579	40,220	46,799	3,560	3,178	6,738
32 +C	1,736,122	73,013	72,483	1,148,925	29,601	1,820	4,549	6,369	884	1,375	2,259
33 +CL	1,225,941	32,816	29,775	1,052,623	13,171	3,410	3,112	6,522	1,727	1,609	3,336
34 +LM	1,116,396	57,901	57,707	1,165,076	13,156	2,997	183	3,180	2,671	5	2,676
35 CL	5,936,823	181,304	177,157	1,552,446	93,913	44,908	33,490	78,298	6,216	2,464	8,680
36 +CL	3,759,203	131,476	103,509	980,060	26,879	14,380	10,741	25,121	4,405	1,819	6,224
37+CLM	2,295,266	87,154	78,296	1,502,000	28,935	5,873	15,293	21,166	2,687	3,401	6,088
38 C	1,349,909	64,326	53,835	1,096,094	18,935	4,996	10,161	15,157	1,945	1,759	3,704
39 +M	2,321,935	39,547	34,877	1,089,875	16,449	5,223	7,905	13,128	4,760	6,417	11,177
40 +LM	2,148,451	70,448	67,465	979,944	28,251	15,704	10,740	26,444	6,742	6,102	12,844
41 +C	1,352,092	49,633	48,641	830,132	8,576	15,182	4,840	20,022	2,643	1,423	4,066
42+CLM	1,792,048	50,486	39,004	2,010,756	33,866	4,204	8,485	12,689	2,997	5,978	8,975
43 +CL	1,822,626	64,613	61,930	1,073,997	18,578	7,165	5,277	12,442	1,966	2,468	4,434
44 +*CLM	1,995,899	74,317	56,505	453,459	15,729	8,971	27,624	36,595	4,567	2,501	7,068
45 +CM	985,742	45,723	45,481	771,071	12,723	3,183	3,083	6,266	2,836	3,310	6,146
46 +C	[illegible],403,568	74,427	68,550	1,387,902	16,481	5,221	4,559	9,780	1,592	815	2,407
47 +C	1,730,872	77,987	75,945	924,439	12,715	3,004	5,302	8,306	2,708	2,711	5,419
48 C	1,797,623	67,660	37,652	947,593	19,136	3,775	13,951	17,726	1,249	1,754	3,003
49 +*LM	1,343,442	47,126	42,342	1,120,027	14,876	2,951	6,398	9,349	1,257	3,832	5,089
50+CLM	5,234,380	129,046	98,428	1,786,069	56,169	6,917	12,205	19,122	4,035	2,846	6,881

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* - Bibliographic count	N/A - Figures not available	M - Includes Medical Library

ARL Library Data Table

LIBRARY CODE NO.	EXPENDITURES: LIBRARY MATERIALS 12	CURRENT SERIALS 13	BINDING 14	TOTAL MATERIALS & BINDING 15	TOTAL SALARIES & WAGES 16	OTHER OPERATING EXPENDITURES 17	TOTAL LIBRARY OPERATING EXPENDITURES 18	PERSONNEL (FTE): PROF. STAFF 19	NON-PROF. STAFF 20	STUDENT ASSTS. 21	TOTAL STAFF 22
26	2,981,715	1,075,851	292,651	3,274,366	3,343,449	548,070	7,165,885	83	201	84	368
27	1,932,316	634,216	137,022	2,069,338	1,911,403	288,975	4,269,716	56	93	38	187
28	1,437,336	640,702	85,755	1,523,091	2,257,362	589,879	4,370,332	55	87	70	212
29	2,201,720	1,325,145	208,758	2,410,478	2,592,145	451,867	5,454,490	68	163	46	277
30	986,671	472,264	43,176	1,029,847	1,933,212	199,737	3,162,796	37	120	13	170
31	5,001,716	2,193,964	494,462	5,496,178	10,428,993	1,520,463	17,445,634	285	531	127	943
32	1,609,089	820,850	156,247	1,765,336	2,898,177	278,381	4,941,894	62	98	70	230
33	1,346,086	815,894	67,500	1,413,586	2,180,865	361,338	3,955,789	50	120	63	233
34	1,894,321	662,024	34,132	1,928,453	3,609,365	625,014	6,162,832	83	124	43	250
35	3,105,575	1,588,664	266,746	3,372,321	5,383,293	1,544,753	10,260,367	139	249	119	507
36	2,439,733	1,000,889	157,413	2,597,146	5,032,612	648,221	8,277,979	116	206	162	484
37	2,308,660	1,329,634	216,740	2,525,400	3,033,352	245,855	5,804,607	74	114	59	247
38	1,588,707	917,295	125,042	1,713,749	2,204,211	285,853	4,203,813	47	112	42	201
39	1,520,972	874,312	60,309	1,581,281	2,393,634	777,548	4,752,463	55	137	34	226
40	1,893,941	1,033,774	102,759	1,996,700	2,843,561	637,280	5,477,541	76	130	68	274
41	850,669	325,475	44,978	895,647	1,295,620	147,244	2,338,511	24	62	26	112
42	1,591,131	997,575	115,836	1,706,967	2,488,371	307,765	4,503,103	69	127	63	259
43	1,710,349	809,645	135,340	1,845,689	2,168,661	449,631	4,463,981	51	94	60	205
44	1,505,851	890,371	114,440	1,620,291	5,183,866	306,465	7,110,622	85	239	38	362
45	1,700,227	699,480	56,270	1,756,497	2,155,897	231,790	4,144,184	36	156	17	209
46	1,801,112	981,983	149,309	1,950,422	3,734,862	633,236	6,318,521	83	172	101	356
47	1,279,489	693,122	55,671	1,335,160	2,452,814	214,183	4,002,157	57	111	42	210
48	1,219,275	834,307	83,500	1,302,775	2,652,960	415,163	4,370,898	68	146	33	247
49	1,395,637	799,727	84,639	1,480,276	2,051,995	272,551	3,804,822	48	108	56	212
50	3,185,344	1,741,930	265,340	3,450,684	6,497,574	967,104	10,915,362	137	313	115	565

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ARL Library Data Table

	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
LIBRARY CODE NO.	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
51 +C	2,613,447	103,284	96,836	1,117,363	34,149	4,728	17,047	21,775	2,942	2,077	5,019
52+CLM	3,807,570	88,621	68,554	1,229,743	45,443	29,670	103,379	133,049	7,556	4,880	12,436
53+CLM	2,016,647	57,130	50,023	2,209,010	20,747	9,779	10,217	19,996	3,036	2,302	5,338
54 L	1,494,040	54,667	52,525	1,252,971	22,081	4,563	6,440	11,003	2,051	1,224	3,275
55 +C	999,973	52,826	37,169	1,667,770	15,658	2,928	1,316	4,244	2,569	1,380	3,949
56+CLM	2,869,122	93,966	92,404	1,456,577	24,201	3,046	11,029	14,075	1,392	2,499	3,891
57 CLM	2,604,404	129,652	117,282	1,447,865	37,529	7,906	11,821	19,727	2,227	3,037	5,264
58 +LM	2,806,320	84,113	72,381	944,804	25,977	2,751	5,866	8,617	1,612	1,815	3,427
59 +CL	1,419,409	38,158	35,605	639,067	13,853	1,910	2,958	4,868	1,254	1,626	2,880
60+CLM	3,529,985	101,011	83,256	1,602,962	29,960	9,780	14,522	24,302	3,901	3,893	7,794
61 +*CLM	1,808,276	71,431	69,743	1,303,431	16,293	4,663	13,805	18,468	4,044	4,201	8,245
62 +C	1,253,052	24,010	22,250	910,561	9,585	2,861	3,174	6,035	2,154	2,041	4,195
63 +CL	1,474,358	50,394	49,476	723,525	20,000	1,596	3,611	5,207	8,295	2,296	10,591
64+CLM	2,938,890	75,587	53,503	1,230,767	26,595	6,994	5,189	12,183	3,637	4,041	7,678
65 +	2,149,603	70,555	57,464	2,198,360	23,805	7,177	9,304	16,481	3,028	2,630	5,658
66+CLM	2,246,371	87,013	79,682	1,235,358	14,877	11,226	21,747	32,973	3,392	4,023	7,415
67 +C	3,260,396	90,722	88,158	1,396,298	30,231	N/A	N/A	10,878	2,244	1,528	3,772
68 C	1,424,896	43,302	36,744	1,019,268	18,465	2,578	7,523	10,101	2,254	2,036	4,290
69 +* CLM	1,370,670	45,380	42,958	731,038	17,947	N/A	N/A	3,909	N/A	N/A	5,876
70 +C	1,034,606	39,786	39,060	1,199,193	9,752	3,791	12,616	16,407	1,023	605	1,628
71 CM	1,700,000	54,000	53,000	1,572,500	12,000	5,200	12,300	17,500	3,300	3,700	7,000
72 +LM	2,216,843	75,109	50,643	1,512,086	24,475	5,576	23,222	28,798	2,208	2,598	4,806
73+CLM	1,000,138	41,948	40,092	1,138,340	10,162	2,619	5,066	7,685	1,658	4,243	5,901
74+CLM	1,819,230	68,036	66,823	1,699,611	16,727	4,496	7,750	12,246	2,735	991	3,726
75 +LM	2,035,570	87,981	77,717	1,246,952	28,310	2,852	4,465	7,317	1,235	1,187	2,422

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ARL Library Data Table

	EXPENDITURES							PERSONNEL (FTE)			
LIBRARY CODE NO.	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
51	1,739,402	996,223	108,922	1,848,324	3,474,405	599,406	5,922,135	77	124	102	303
52	2,309,764	1,357,209	225,710	2,535,474	5,897,481	977,377	9,410,332	124	184	127	435
53	1,690,303	1,110,248	130,756	1,821,059	2,076,606	318,791	4,216,456	58	113	45	216
54	1,541,332	1,004,202	82,976	1,624,308	2,020,343	371,133	4,015,784	55	104	39	198
55	1,176,548	534,247	68,095	1,244,643	1,890,113	167,271	3,302,027	45	98	46	189
56	1,823,388	1,071,845	140,381	1,963,769	3,847,251	511,296	6,322,316	79	184	66	329
57	2,825,763	940,068	167,598	2,993,361	4,079,527	694,885	7,767,773	108	190	57	355
58	2,065,770	1,192,876	135,637	2,201,407	4,043,361	229,514	6,474,282	98	153	100	351
59	1,201,945	610,030	57,244	1,259,189	1,443,791	175,877	2,878,857	39	85	18	142
60	2,612,978	1,267,786	57,051	2,670,029	5,140,470	1,174,823	8,985,322	100	208	138	446
61	1,580,706	817,871	89,676	1,670,382	1,789,740	321,664	3,781,786	50	83	50	183
62	735,946	563,123	45,025	780,971	1,114,000	168,137	2,063,108	37	50	45	132
63	1,244,319	762,375	65,753	1,310,072	2,106,963	251,646	3,668,681	45	84	55	184
64	1,769,604	936,011	416,791	2,186,395	3,997,284	754,726	6,938,405	88	151	70	309
65	2,196,853	1,131,490	108,844	2,305,697	4,960,136	816,272	8,082,105	98	262	58	418
66	1,535,284	670,880	108,528	1,643,812	3,388,232	347,009	5,379,053	150	98	72	320
67	2,588,531	1,290,636	151,438	2,739,969	4,345,119	735,393	7,820,481	94	241	59	394
68	1,515,934	1,006,401	80,107	1,596,041	2,747,547	342,504	4,686,092	42	178	51	271
69	1,393,874	632,731	90,426	1,484,300	2,421,935	212,165	4,118,400	41	168	24	233
70	1,116,784	651,984	53,931	1,170,715	1,142,138	461,071	2,773,924	32	59	14	105
71	1,333,000	827,000	95,000	1,428,000	1,925,000	347,000	3,700,000	54	97	30	181
72	2,542,699	1,340,709	159,549	2,702,248	5,285,716	720,993	8,708,957	106	256	60	422
73	1,280,683	718,624	60,741	1,341,424	2,062,430	211,355	3,615,209	39	116	18	173
74	1,509,066	756,826	90,337	1,599,403	2,161,646	325,700	4,086,749	61	104	36	201
75	2,012,526	1,103,364	119,330	2,131,856	3,339,604	690,705	6,162,165	85	143	92	323

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ARL Library Data Table

	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
LIBRARY CODE NO.	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
76 +CL	1,630,825	50,850	44,886	1,913,454	20,316	16,012	11,508	27,520	2,104	1,548	3,652
77 +LM	4,694,769	141,208	116,942	2,678,740	45,766	8,572	24,813	33,385	2,343	1,528	3,871
78 +	936,864	43,308	38,704	1,667,830	15,647	3,837	4,392	8,229	3,986	4,095	8,081
79 +LM	1,936,437	71,749	51,494	1,876,285	20,907	3,833	15,100	18,933	3,132	4,195	7,327
80 +CM	1,226,807	50,680	49,887	1,587,647	17,635	3,408	9,247	12,655	2,014	2,976	4,990
81 *+CL	1,888,312	69,118	66,285	1,849,080	22,221	1,931	2049	3,980	2,012	1,566	3,578
82+CLM	1,592,849	52,258	48,575	854,191	16,254	4,082	3,494	7,576	1,137	1,590	2,727
83 +C	1,356,369	44,017	40,406	1,188,383	25,157	8,330	5,064	13,394	1,851	2,282	4,133
84 +CL	4,547,508	188,132	141,315	2,211,079	60,000	8,006	6,700	14,706	5,816	2,740	8,556
85 +CM	1,299,644	78,035	58,815	1,606,791	15,347	6,810	15,871	22,681	3,915	3,785	7,700
86 +LM	4,448,310	171,899	127,866	1,245,144	42,244	7,198	4,756	11,954	2,924	2,984	5,908
87 +LM	1,372,405	37,536	33,435	918,497	12,931	N/A	N/A	9,590	N/A	N/A	4,459
88 +C	1,990,000	73,912	68,722	1,386,143	17,249	4,379	2,919	7,298	3,594	2,824	6,418
89+CLM	1,430,289	39,207	33,306	1,029,383	15,187	3,804	1,071	4,875	2,114	644	2,758
90 CLM	2,431,322	92,357	79,480	2,487,650	23,360	6,945	2,705	9,650	1,602	504	2,106
91 C	1,226,037	88,847	84,770	2,830,068	23,304	2,609	5,570	8,179	1,873	2,368	4,241
92+CLM	3,877,238	174,099	162,675	3,019,186	42,753	25,133	94,677	119,810	3,070	1,658	4,728
93 +C	1,231,724	43,015	41,825	1,694,410	29,140	3,192	2,660	5,852	1,607	2,109	3,716
94+CLM	1,798,711	51,166	44,015	952,974	15,003	4,575	7,852	12,427	2,393	3,042	5,435
95+CLM	1,839,429	50,874	34,497	905,543	13,428	9,878	36,882	46,760	1,138	2,166	3,304
96+CLM	1,375,565	59,444	47,742	1,205,576	N/A	3,670	4,813	8,483	2,136	2,182	4,318
97+CLM	3,631,669	158,344	156,485	1,829,367	54,083	41,270	71,297	112,567	14,197	10,673	24,870
98 +* CLM	7,401,953	173,003	155,758	1,294,923	57,891	4,887	6,800	11,687	2,525	1,000	3,525
99 +L	1,272,551	53,183	33,433	935,775	12,756	3,930	3,924	7,854	2,174	1,132	3,306
100 +	4,829,050	189,113	178,761	1,931,208	16,464	14,689	19,569	34,258	299	0	299

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ARL Library Data Table

	EXPENDITURES							PERSONNEL (FTE)			
LIBRARY CODE NO.	LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
	12	13	14	15	16	17	18	19	20	21	22
76	1,625,451	1,070,355	103,587	1,729,038	2,730,942	515,221	4,975,201	61	112	85	258
77	4,043,647	1,591,609	246,180	4,289,827	7,504,597	1,750,334	13,544,758	150	311	99	560
78	1,252,594	738,229	42,000	1,294,594	2,069,776	282,206	3,646,576	49	101	24	174
79	1,651,883	1,059,796	158,994	1,810,877	3,220,783	551,807	5,583,467	97	140	54	291
80	1,328,317	809,322	75,374	1,403,691	2,340,725	302,522	4,046,938	48	117	29	194
81	1,167,923	700,753	74,807	1,242,730	2,087.600	306,031	3,636,361	59	145	66	270
82	1,375,794	864,250	92,559	1,468,353	2,799,220	331,084	4,598,657	77	131	56	264
83	1,521,950	1,010,733	98,794	1,620,744	2,114,837	632,036	4,367,617	46	136	28	210
84	2,880,062	1,480,926	125,532	3,005,594	5,651,570	716,219	9,373,383	126	332	75	533
85	1,659,190	904,190	94,210	1,753,400	1,930,063	336,551	4,020,014	45	118	50	213
86	3,314,473	1,546.564	164,880	3,479,353	8,826,042	879,051	13,184,446	162	516	63	741
87	1,208,618	657,872	86,948	1,295,566	1,598,583	308,271	3,202,420	45	96	51	192
88	1,209,641	561,073	46,582	1,256,223	2,114,320	445,823	3,816,366	43	97	65	205
89	1,207,427	837,916	78,606	1,286,033	1,855,663	756,006	3,897,702	49	110	56	215
90	3,031,146	1,377,945	169,818	3,200,964	3,534,827	539,963	7,275,754	81	196	50	327
91	1,932,501	904,982	155,345	2,087,846	2,154,646	361,424	4,603,916	56	108	35	199
92	2,587,773	1,773,717	215,036	2,802,809	5,551,754	525,021	8,879,584	120	237	124	481
93	1,325,771	1,033,190	106,804	1,432,575	2,714,141	637,147	4,783,864	51	127	63	241
94	1,485,884	925,000	108,887	1,594,771	2,193,932	788,592	4,577,295	50	129	46	225
95	1,422,709	737,036	80,000	1,502,709	2,857,309	877,094	5,237,112	66	110	42	218
96	1,756,186	1,069,011	84,781	1,840,967	3,377,459	163,907	5,382,333	59	216	42	317
97	2,797,166	1,623,387	238,737	3,035,903	5,592,551	1,103,395	9,731,849	122	235	125	482
98	3,114,825	1,298,007	257,503	3,372,328	7,092,021	1,658,134	12,122,483	170	391	32	593
99	1,271,024	683,927	99,190	1,370,214	2,667,877	544,272	4,582,364	47	152	39	238
100	2,205,422	497,024	N/A	2,205,422	7,290,775	2,225,386	11,721,583	172	311	52	535

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ARL Library Data Table

	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
LIBRARY CODE NO.	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
101 +	3,328,126	27,112	27,112	852,501	14,000	23,743	0	23,743	0	0	0
102 +	1,211,758	18,498	18,477	422,147	10,637	26,092	23,915	50,007	254	0	254
103 +L	19,223,177	306,980	292,272	4,809,673	2,001,600	168,095	18,700	186,795	1,349	N/A	N/A
104 +	498,248	18,619	18,430	636,427	16,297	24,122	52,057	76,179	6	41	47
105 +L	1,702,533	35,248	34,288	N/A	24,000	1,593	25,992	27,585	N/A	N/A	13,264
106 +*	1,038,036	25,888	25,888	903,348	18,182	36,701	12,122	48,823	790	296	1,086
107 +	1,543,179	36,113	32,803	96,049	20,131	16,279	166,758	183,037	14	38	52
108 +*	1,335,767	9,591	9,576	222,780	6,873	27	562	589	183	0	183
109 +	5,027,455	90,032	76,500	1,567,112	168,537	567	5,299	5,866	1,071	212	1,283
110 +LM	1,746,624	34,917	33,964	1,883,989	29,000	20,976	N/A	N/A	1,143	N/A	N/A
111 +	898,784	24,176	23,755	N/A	18,635	2,360	2,297	4,657	22,288	4,923	27,211

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ARL Library Data Table

	EXPENDITURES							PERSONNEL (FTE)			
LIBRARY CODE NO.	LIBRARY MATERIALS 12	CURRENT SERIALS 13	BINDING 14	TOTAL MATERIALS & BINDING 15	TOTAL SALARIES & WAGES 16	OTHER OPERATING EXPENDITURES 17	TOTAL LIBRARY OPERATING EXPENDITURES 18	PROF. STAFF 19	NON-PROF. STAFF 20	STUDENT ASSTS. 21	TOTAL STAFF 22
101	583,769	171,000	0	583,769	677,714	583,660	1,845,143	15	32	8	55
102	347,238	324,540	55,963	403,201	1,023,049	765,007	2,191,257	27	51	5	83
103	6,110,229	1,648,164	1,019,396	7,129,625	107,421,000	90,645,000	205,195,625	2,662	2,433	60	5,155
104	648,700	569,075	24,600	673,300	487,100	38,500	1,198,900	18	18	20	56
105	883,500	655,000	100,000	983,500	4,151,100	2,156,225	7,290,825	101	97	23	221
106	770,331	220,825	41,699	812,030	7,785,338	3,918,221	12,515,589	190	315	5	510
107	1,608,000	973,000	200,000	1,808,000	4,881,000	4,117,000	10,806,000	134	115	39	288
108	285,913	101,055	24,136	310,049	1,463,182	820,720	2,593,951	45	69	0	114
109	3,530,000	N/A	389,000	3,919,000	14,850,000	4,423,000	23,192,000	185	639	122	946
110	1,134,999	938,691	100,000	1,234,999	2,570,081	723,997	4,529,077	82	157	0	239
111	509,524	264,450	81,950	591,974	1,908,884	480,470	2,981,328	44	64	0	108

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ARL Library Data Table
Totals

COLLECTIONS					INTERLIBRARY LOANS					
					LOANED			BORROWED		
VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
1	2	3	4	5	6	7	8	9	10	11
UNIVERSITY MEDIAN										
1,792,048	67,742	56,505	1,235,358	19,568	4,808	7,832	12,655	2,525	2,317	4,990
UNIVERSITY HIGH										
10,082,663	210,448	177,157	3,019,186	102,199	44,908	103,379	133,049	14,197	10,673	27,083
UNIVERSITY LOW										
936,864	24,010	21,902	388,821	8,528	284	183	1,955	884	5	1,625
TOTALS—UNIVERSITY LIBRARIES										
223,817,391	7,691,761	6,793,942	133,336,696	2,557,574	664,757	1,186,292	1,875,326	281,432	259,023	577,831
TOTALS—NON-UNIVERSITY LIBRARIES										
42,382,737	816,287	771,826	13,325,234	2,344,356	335,244	327,271	641,539	27,397	5,510	43,679
GRAND TOTALS—ALL ARL LIBRARIES										
266,200,128	8,508,048	7,565,768	146,661,930	4,901,930	1,000,001	1,513,563	2,516,865	308,829	264,533	621,510

GUIDE TO LIBRARY CODE NUMBERS

The institutions listed below are the 111 institutions that were members of the Association of Research Libraries in 1980. Each has been assigned a code number for use on the data tables on pages 4-13 in place of the names of the institutions. (See columns labeled "Library Code No." to the left of columns 1 and 12). Numbers 1-99 have been used to designate the 99 university library members of the Association. Numbers 100-111 designate the 12 nonacademic members.

1. Alabama
2. Alberta
3. Arizona
4. Arizona State
5. Boston
6. Brigham Young
7. British Columbia
8. Brown
9. Calif., Berkeley
10. Calif., Davis
11. Calif., Los Angeles
12. Calif., Riverside
13. Calif., San Diego
14. Calif., Santa Barbara
15. Case Western Reserve
16. Chicago
17. Cincinnati
18. Colorado
19. Colorado State
20. Columbia
21. Connecticut
22. Cornell
23. Dartmouth
24. Duke
25. Emory
26. Florida
27. Florida State
28. Georgetown
29. Georgia
30. Guelph
31. Harvard
32. Hawaii
33. Houston
34. Howard
35. Illinois
36. Indiana
37. Iowa
38. Iowa State
39. Johns Hopkins
40. Kansas
41. Kent State
42. Kentucky
43. Louisiana State
44. McGill
45. McMaster
46. Maryland
47. Massachusetts
48. MIT
49. Miami
50. Michigan
51. Michigan State
52. Minnesota
53. Missouri
54. Nebraska
55. New Mexico
56. New York
57. North Carolina
58. Northwestern
59. Notre Dame
60. Ohio State
61. Oklahoma
62. Oklahoma State
63. Oregon
64. Pennsylvania
65. Pennsylvania State
66. Pittsburgh
67. Princeton
68. Purdue
69. Queen's
70. Rice
71. Rochester
72. Rutgers
73. Saskatchewan
74. South Carolina
75. Southern California
76. Southern Illinois
77. Stanford
78. SUNY-Albany
79. SUNY-Buffalo
80. SUNY-Stony Brook
81. Syracuse
82. Temple
83. Tennessee
84. Texas
85. Texas A & M
86. Toronto
87. Tulane
88. Utah
89. Vanderbilt
90. Virginia
91. Virginia Polytechnic
92. Washington
93. Washington State
94. Washington Univ., St. Louis
95. Wayne State
96. Western Ontario
97. Wisconsin
98. Yale
99. York

*100. Boston Public Library
*101. Center for Research Libraries
*102. John Crerar Library
*103. Library of Congress
*104. Linda Hall Library
*105. National Agricultural Library
*106. National Library of Canada
*107. National Library of Medicine
*108. Newberry Library
*109. New York Public Library
*110. New York State Library
*111. Smithsonian Institution

*Nonacademic library

GUIDE TO LIBRARY CODE NUMBERS

ARL Library Data Table
Totals

EXPENDITURES							PERSONNEL (FTE)			
LIBRARY MATERIALS	CURRENT SERIALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF	NON-PROF. STAFF	STUDENT ASSTS.	TOTAL STAFF
12	13	14	15	16	17	18	19	20	21	22
UNIVERSITY MEDIAN										
1,637,405	904,190	108,844	1,756,497	2,730,942	498,496	4,783,864	61	131	56	250
UNIVERSITY HIGH										
5,001,716	2,193,964	494,462	5,496,178	10,428,993	2,026,007	17,445,634	285	531	212	943
UNIVERSITY LOW										
735,946	246,125	34,132	780,971	1,114,000	147,244	2,063,108	24	50	13	105
TOTALS—UNIVERSITY LIBRARIES										
181,744,249	92,577,978	13,026,621	194,770,872	330,455,546	56,400,712	581,587,134	7,239	15,478	5,973	28,690
TOTALS—NON-UNIVERSITY LIBRARIES										
18,617,625	6,362,824	2,036,744	20,654,869	154,509,223	110,897,186	286,061,278	3,675	4,301	334	8,310
GRAND TOTALS—ALL ARL LIBRARIES										
200,361,874	98,940,802	15,063,365	215,425,741	484,964,769	167,297,898	867,648,412	10,914	19,779	6,307	37,000

ANALYSIS OF SELECTED VARIABLES OF UNIVERSITY LIBRARIES

The percentages and ratios below are intended to summarize the basic data in the ARL Library Data Tables. The high, median, and low figures indicate the range as well as the midpoint for ARL's 99 university library members.

	Category	High	Median	Low
1.	Professional Staff as percent of Total Staff	46	24	15
2.	Nonprofessional Staff as percent of Total Staff	74	52	18
3.	Student Assistant Staff as percent of Total Staff	57	20	5
4.	Ratio of Professional to Non-professional Staff (excluding student assistants)	1.5:1	0.5:1	0.2:1
5.	Ratio of Items Loaned to Items Borrowed	25.3:1	2.6:1	0.3:1
6.	Materials Expenditures as percent of Total Operating Expenditures	45	32	21
7.	Serials Expenditures as percent of Materials Expenditures	81	54	21
8.	Salary and Wage Expenditures as percent of Total Operating Expenditures	72	56	41
9.	Ratio of Salary and Wage Expenditures to Materials Expenditures	3.4:1	1.7:1	1:1

Median figures are useful indicators when there is wide dispersion within a distribution. Because the mean represents a "balance point," a few very high or low scores may sometimes pull the mean away from the actual point at which values cluster. Medians, on the other hand, are a measure of central tendency, focusing on the midpoint in a distribution, and are thus preferable for describing ARL libraries.

ANALYSIS OF MICROFORM HOLDINGS

INSTITUTION	REELS OF MICROFILM	NUMBER OF MICROCARDS	NUMBER OF MICRO-PRINT SHEETS	NUMBER OF MICROFICHES
Alabama	41,795	141,863	75,257	537,436
Alberta	75,901	621,414	154,520	549,611
Arizona +	73,835	159,872	N/A	1,517,167
Arizona State	61,919	116,397	183,410	757,448
Boston	40,099	27,382	668,510	462,062
Brigham Young	41,627	53,525	174,145	519,364
British Columbia	65,229	111,976	1,058,250	1,062,338
Brown	23,595	41,933	394,537	165,543
Calif., Berkeley	176,185	166,742	132,430	1,094,599
Calif., Davis	58,507	206,668	327,252	897,003
Calif., Los Angeles +	115,331	1,690,774	N/A	N/A
Calif., Riverside +	33,516	N/A	N/A	737,477
Calif., San Diego	19,819	94,174	0	602,722
Calif., Santa Barbara	36,696	92,958	170,213	1,230,758
Case Western Reserve	19,263	75,213	7,020	287,325
Chicago +	73,737	15,894	74,471	579,791
Cincinnati	46,615	57,121	134,031	722,590
Colorado	39,107	125,642	208,314	1,610,827
Colorado State	21,442	14,756	2,749	497,566
Columbia	123,491	131,961	543,862	1,336,678
Connecticut	41,408	146,880	446,899	609,825
Cornell	92,733	139,794	886,669	1,119,939
Dartmouth +	48,510	56,028	156,252	599,902
Duke +	188,380	N/A	N/A	550,911
Emory +	27,564	N/A	N/A	910,316
Florida +	104,549	146,850	315,037	1,090,656
Florida State	121,106	247,455	464,264	1,079,874
Georgetown	21,868	26,748	278,833	420,303
Georgia	106,286	264,939	473,274	1,015,482
Guelph	38,166	7,109	0	653,695
Harvard	159,970	88,012	690,665	1,162,928
Hawaii	72,167	127,667	242,337	706,754
Houston	22,132	64,242	170,936	795,313
Howard	54,740	273,902	0	836,434
Illinois	148,173	84,640	246,526	1,073,107
Indiana	81,141	114,866	209,677	574,376
Iowa	89,487	104,616	176,303	1,131,594
Iowa State	30,410	6,396	191,789	867,499
Johns Hopkins +	39,501	578,124	N/A	472,250
Kansas	44,289	72,544	227,811	635,300
Kent State +	49,866	N/A	N/A	780,266
Kentucky	89,695	272,548	399,622	1,248,891
Louisiana State	65,919	205,427	41,723	760,928
McGill +	41,105	163,067	N/A	249,287

N/A - Not available
+ - See footnotes

ANALYSIS OF MICROFORM HOLDINGS

INSTITUTION	REELS OF MICROFILM	NUMBER OF MICROCARDS	NUMBER OF MICRO-PRINT SHEETS	NUMBER OF MICROFICHES
McMaster	42,892	169,298	197,165	361,716
Maryland +	70,001	N/A	N/A	1,317,901
Massachusetts	83,066	9,850	87,750	743,773
MIT	13,255	137,670	N/A	796,668
Miami +	24,741	N/A	N/A	1,095,286
Michigan +	114,233	N/A	N/A	1,671,836
Michigan State +	108,539	728,773	280,051	N/A
Minnesota	85,784	104,413	180,094	859,452
Missouri	N/A	N/A	N/A	N/A
Nebraska	38,174	35,827	518,380	660,590
New Mexico +	66,600	N/A	219,570	1,381,600
New York	73,618	80,092	358,180	944,687
North Carolina	93,604	71,062	579,857	703,342
Northwestern	44,859	110,576	70,436	718,933
Notre Dame +	26,631	N/A	236,729	375,707
Ohio State	328,007	74,176	419,465	781,314
Oklahoma	52,288	112,936	201,692	963,515
Oklahoma State	26,633	70,425	253,524	559,979
Oregon	39,934	96,267	277,184	310,140
Pennsylvania	66,268	100,932	719,514	344,053
Pennsylvania State +	169,751	1,725,321	303,288	N/A
Pittsburgh	48,335	99,372	487,949	599,702
Princeton	80,261	186,935	435,568	693,534
Purdue	28,642	147,248	0	843,378
Queen's	N/A	N/A	N/A	N/A
Rice	31,784	133,993	507,397	526,019
Rochester	31,900	171,300	651,000	718,300
Rutgers	92,824	111,320	556,019	751,923
Saskatchewan +	28,350	N/A	N/A	1,109,990
South Carolina	70,999	168,908	526,651	933,053
Southern California	32,515	169,301	595,391	449,745
Southern Illinois	97,651	203,974	1,125,697	486,132
Stanford +	122,206	N/A	N/A	2,556,534
SUNY- Albany	208,883	28,615	503,407	926,925
SUNY - Buffalo	44,805	182,649	844,917	803,914
SUNY - Stony Brook	47,024	137,289	727,061	676,273
Syracuse	37,583	239,110	769,086	803,301
Temple	48,862	253,718	128,794	422,817
Tennessee +	56,395	N/A	N/A	1,131,988
Texas	99,735	136,588	598,083	1,376,673
Texas A & M	35,843	96,000	216,038	1,258,910
Toronto	58,278	56,627	892,863	237,376
Tulane +	37,074	N/A	N/A	881,423
Utah	N/A	N/A	N/A	N/A

N/A - Not available
+ - See footnotes

ANALYSIS OF MICROFORM HOLDINGS

INSTITUTION	REELS OF MICROFILM	NUMBER OF MICROCARDS	NUMBER OF MICRO-PRINT SHEETS	NUMBER OF MICROFICHES
Vanderbilt +	22,991	N/A	396,013	610,379
Virginia	96,813	181,984	296,905	1,911,948
Virginia Polytechnic +	61,104	591,042	N/A	2,177,922
Washington +	89,397	495,496	N/A	2,434,293
Washington State	65,965	195,154	576,131	857,160
Wash. Univ., St. Louis	28,837	26,272	180,203	717,662
Wayne State	38,714	55,346	129,780	681,703
Western Ontario	52,151	54,007	624,990	474,428
Wisconsin	45,031	54,050	92,838	1,637,448
Yale	98,072	314,619	442,900	439,332
York +	37,109	N/A	N/A	898,666
*Boston Public Library +	100,407	52,481	1,195,200	583,120
*Center for Res. Libs. +	252,460	N/A	258,811	341,230
*John Crerar Library	5,941	80,000	N/A	336,206
*Library of Congress	1,008,744	159,279	390,533	3,251,117
*Linda Hall Library	11,093	84,613	0	540,721
*National Agric. Lib.	N/A	N/A	N/A	N/A
*National Lib. of Canada	66,178	16,498	437,488	383,184
*National Lib. of Med.	28,162	0	0	67,887
*Newberry Library	N/A	N/A	N/A	N/A
*New York Public Lib. +	247,738	1,005,393	N/A	313,981
*New York State Library	79,843	160,000	574,493	1,069,653
*Smithsonian Institution	N/A	N/A	N/A	N/A

*Nonuniversity library
N/A - Not available
+ - See footnotes

PH.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1979			
			Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Alabama +	80	50	15,486	953	1,635	470
Alberta +	150	39	18,075	2,307	1,899	734
Arizona	259	91	19,847	1,307	3,486	377
Arizona State	101	31	24,191	5,169	1,975	1,137
Boston +	338	72	17,822	2,488	2,890	1,122
Brigham Young +	64	18	22,766	2,903	1,178	401
British Columbia	134	137	19,468	1,766	2,270	343
Brown	150	33	N/A	N/A	N/A	N/A
Calif., Berkeley	736	90	27,795	2,667	8,719	466
Calif., Davis +	245	47	17,950	75	4,997	35
Calif., Los Angeles +	537	60	31,300	N/A	10,218	N/A
Calif., Riverside	113	25	4,292	328	1,301	72
Calif., San Diego	137	31	10,554	293	1,411	62
Calif., Santa Barbara	169	28	14,078	707	1,803	178
Case Western Reserve	157	42	6,145	583	1,713	498
Chicago	304	80	7,889	1,193	5,141	1,079
Cincinnati	190	33	18,937	5,500	2,454	600
Colorado	213	43	17,293	1,393	2,863	1,187
Colorado State	141	34	16,476	792	1,786	194
Columbia +	335	53	13,639	1,257	8,576	906
Connecticut	161	64	15,000	2,200	1,969	1,021
Cornell	399	84	16,710	11	4,781	9
Dartmouth +	21	10	3,510	72	196	41
Duke	176	31	8,832	130	3,090	63
Emory	63	17	7,066	271	854	130
Florida	199	53	27,873	2,219	2,883	527
Florida State	332	62	16,453	2,076	2,130	499
Georgetown	59	22	9,632	995	1,230	420
Georgia	194	43	19,086	2,625	2,946	1,020
Guelph	31	53	9,191	419	646	43
Harvard	364	41	15,521	1,961	6,336	144
Hawaii	121	29	15,410	2,129	1,907	544
Houston	74	24	15,069	5,540	1,696	1,253
Howard +	34	23	9,411	1,331	2,710	906
Illinois	597	75	30,989	3,387	5,068	2,228
Indiana	255	70	26,411	1,720	3,956	561
Iowa	260	54	18,325	2,059	3,023	1,111
Iowa State	239	70	20,488	1,648	1,930	848

* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

+ - See footnotes

PH.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1979 Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Johns Hopkins	160	43	4,663	1,613	2,436	1,098
Kansas	238	55	17,915	2,238	2,244	1,076
Kent State +	55	25	12,860	1,620	1,622	449
Kentucky	119	47	17,775	1,500	1,601	601
Louisiana State	129	48	20,860	1,934	1,870	828
McGill	132	69	15,304	3,171	2,960	958
McMaster	89	27	9,899	1,998	1,121	643
Maryland	292	68	27,673	3,679	2,509	1,275
Massachusetts	282	53	20,905	1,005	2,167	682
MIT	260	29	8,504	549	4,018	126
Miami	66	43	11,968	1,567	1,050	615
Michigan	543	133	30,383	1,953	6,893	1,010
Michigan State	473	139	36,998	4,376	3,734	2,158
Minnesota	466	87	38,410	9,014	7,835	420
Missouri	228	59	19,865	1,379	2,261	664
Nebraska	191	42	17,894	2,274	1,416	908
New Mexico	124	31	14,120	2,918	1,397	745
New York	438	91	17,020	8,006	4,160	3,887
North Carolina	286	56	17,918	1,495	2,599	674
Northwestern	289	65	11,767	4,852	1,221	475
Notre Dame	75	26	8,454	111	1,036	100
Ohio State	563	82	46,211	1,886	6,189	866
Oklahoma	380	79	18,269	2,546	1,800	797
Oklahoma State	121	37	18,867	1,133	1,221	647
Oregon	183	34	14,165	1,018	2,209	176
Pennsylvania	301	83	16,494	1,837	5,434	581
Pennsylvania State	315	87	46,668	3,933	3,391	430
Pittsburgh	358	96	17,066	4,686	3,464	2,039
Princeton	195	51	4,447	0	1,430	0
Purdue	387	53	27,977	1,112	3,339	493
Queen's	31	27	10,416	790	1,058	140
Rice	68	26	3,468	66	968	30
Rochester	156	48	6,257	570	1,537	161
Rutgers	217	49	32,523	2,774	2,775	1,076
Saskatchewan	110	63	9,732	1,073	549	130
South Carolina	116	42	17,604	8,402	2,593	4,777
Southern California +	450	64	17,172	3,789	2,058	2,527
Southern Illinois	164	20	19,104	1,820	901	1,210

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* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

+ - See footnotes

PH.D. AND ENROLLMENT STATISTICS *

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	ENROLLMENTS - FALL 1979			
			Total Full-time**	Total FTE Part-time**	Full-time Graduate	Part-time Graduate FTE
Stanford	443	70	11,337	657	3,767	449
SUNY- Albany	83	21	11,373	1,568	1,705	1,101
SUNY - Buffalo	265	65	13,969	6,449	4,584	2,929
SUNY - Stony Brook	140	24	12,640	1,134	2,064	683
Syracuse	197	75	14,071	1,674	1,938	2,479
Temple	123	60	18,880	4,904	1,576	1,249
Tennessee +	186	41	22,751	2,941	2,747	979
Texas	440	71	38,834	2,543	6,601	612
Texas A & M	288	64	27,803	1,324	2,750	451
Toronto	314	65	33,197	47,109	4,613	1,202
Tulane	62	29	7,746	656	1,310	368
Utah	170	60	15,773	2,649	1,619	1,125
Vanderbilt	109	33	8,242	278	851	40
Virginia	180	42	15,029	401	2,744	196
Virginia Polytechnic	124	48	18,983	1,040	2,076	707
Washington	351	56	28,562	3,894	5,499	843
Washington State	147	36	15,641	351	1,508	242
Wash. Univ., St. Louis	110	41	7,100	1,004	1,451	254
Wayne State	151	44	20,496	5,438	3,154	1,467
Western Ontario	84	28	14,483	2,537	1,660	233
Wisconsin	664	128	33,553	2,192	7,396	554
Yale	323	47	9,954	244	4,681	88
York +	58	31	9,822	4,904	3,228	1,050

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* These figures were reported on ARL questionnaires and have not been verified with the National Center for Education Statistics.

** Includes both undergraduate and graduate students.

N/A - Not available

+ - See footnotes

THE ARL LIBRARY INDEX*

The data tables at the beginning of the ARL Statistics display figures reported by ARL member libraries in 22 categories that, with the exception of the measures of interlibrary loan activity, describe the size of ARL libraries in terms of holdings, expenditures, and personnel. The rank order tables provide an overview of the ranges and medians for 14 of these categories, or variables, among ARL academic libraries, as well as quantitatively comparing each library with other ARL member institutions. However, no one of the 22 variables provides a summary measure of a library's relative size within ARL or characterizes the ARL libraries as a whole.

The ARL Library Index has been derived as a means of providing this summary characterization, permitting quantitative comparisons of ARL academic libraries, singly and as a group, with other academic libraries. Through the use of statistical techniques known as factor analysis, it can be determined that 15 of the variables reported to ARL are more closely correlated with each other than with other categories. Within this group of 15 variables, some are subsets or combinations of others, e.g. expenditures for serials are a subset of expenditures for library materials. When the subsets and combinations are eliminated, ten variables emerge as characteristic of ARL library size. These are: volumes held, volumes added (gross), microform units held, current serials received, expenditures for library materials, expenditures for binding, total salary and wage expenditures, other operating expenditures, number of professional staff, and number of nonprofessional staff.

These ten categories delineate an underlying dimension, or factor, of library size. By means of principal component analysis, a technique that is a variant of factor analysis, it is possible to calculate the correlations of each of the variables with this hypothetical factor of library size. From this analysis, a weight for each variable can be determined based upon how closely that variable is correlated with the overall dimension of library size defined by all ten categories. A high correlation indicates that much of the variation in ARL library size is accounted for by the variable in question, implying a characteristic in which ARL libraries are relatively alike. The component score coefficients, or weights, for the 1979-80 ARL academic library data are:

Volumes held	.12108
Volumes added (gross)	.11940
Microforms held	.07509
Current serials received	.12253
Expenditures for library materials	.12553
Expenditures for binding	.11266
Expenditures for salaries and wages	.12581
Other operating expenditures	.10592
Number of professional staff	.12347
Number of nonprofessional staff	.11297

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*For a full description of the index see Kendon Stubbs, The ARL Library Index and Quantitative Relationships in the ARL (Washington, D.C.: ARL, 1980).

From these weights an individual library can compute an index score that will indicate its relative position among ARL libraries with respect to the overall factor of library size. The data for each of the ten variables are converted to standard normal form and multiplied by the appropriate weight. The resulting scores are expressed in terms of the number of standard deviations above or below the mean index score for ARL academic libraries. Thus the formula* for calculating a library's 1979-80 index score is:

.12108 (log of volumes held - 6.2916)/.2172
+ .11940 (log of volumes added gross - 4.8412)/.2025
+ .07509 (log of microforms - 6.0950)/.1763
+ .12253 (log of current serials - 4.3432))/.2341
+ .12553 (log of expenditures for materials - 6.2333)/.1636
+ .11266 (log of expenditures for binding - 5.0480)/.2475
+ .12581 (log of total salaries - 6.4675)/.2103
+ .10592 (log of operating expenditures - 5.6773)/.2635
+ .12347 (log of professional staff - 1.8281/.1968
+ .11297 (log of nonprofessional staff - 2.1512)/.2046

The index scores for the 99 academic libraries that were members of ARL during 1979-80 are shown on the following page. It is important to emphasize that these scores are only a summary description of library size, distributing ARL libraries along a normal curve, based on ten quantitative measures that are positively correlated with one another in ARL libraries. The scores, are in no way a qualitative assessment of the collections, services, or operations of these libraries.

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*For calculation on a hand calculator, the formula can be mathematically simplified to: (.55746 x log of volumes held) + (.58963 x log of volumes added gross) + (.42592 x log of microforms) + (.52341 x log of current serials) + (.76730 x log of expenditures for materials) + (.45519 x log of expenditures for binding) + (.59824 x log of total salaries) + (.40197 x log of operating expenditures) + (.62739 x log of professional staff) + (.55215 x log of nonprofessional staff) - 26.79765.

ARL Library Index, 1979-1980

1.	Harvard	3.00
2.	Calif., Berkeley	2.20
3.	Yale	2.09
4.	Stanford	2.02
5.	Calif., Los Angeles	1.97
6.	Illinois	1.95
7.	Michigan	1.77
8.	Columbia	1.74
9.	Toronto	1.67
10.	Cornell	1.62
11.	Texas	1.61
12.	Wisconsin	1.55
13.	Washington	1.45
14.	Minnesota	1.16
15.	North Carolina	.98
16.	Indiana	.94
17.	British Columbia	.92
18.	Princeton	.88
19.	Arizona	.88
20.	Chicago	.87
21.	Ohio State	.87
22.	Rutgers	.80
23.	Florida	.78
24.	Virginia	.74
25.	Pennsylvania State	.71
26.	Pennsylvania	.68
27.	Calif., Davis	.64
28.	New York	.48
29.	Georgia	.44
30	Southern California	.36
31.	Michigan State	.34
32.	Duke	.34
33.	Northwestern	.30
34.	Iowa	.29
35.	Alberta	.28
36.	SUNY-Buffalo	.27
37.	Maryland	.18
38.	Kansas	.11
39.	Pittsburgh	.07
40.	Virginia Polytechnic	-.02
41.	Calif., San Diego	-.03
42.	Kentucky	-.07
43.	Calif., Santa Barbara	-.10
44.	Hawaii	-.13
45.	McGill	-.17
46.	Missouri	-.18
47.	Southern Illinois	-.18
48.	Cincinnati	-.24
49.	Washington State	-.28
50.	Arizona State	-.30
51.	MIT	-.32
52.	Louisiana State	-.33
53.	Syracuse	-.34
54.	Boston	-.36
55.	South Carolina	-.36
56.	Wayne State	-.36
57.	Washington, St. Louis	-.38
58.	Johns Hopkins	-.38
59.	Howard	-.39
60.	Tennessee	-.40
61.	Florida State	-.43
62.	Temple	-.43
63.	Texas A&M	-.47
64.	Connecticut	-.48
65.	Iowa State	-.49
66.	Nebraska	-.49
67.	Purdue	-.53
68.	Oklahoma	-.55
69.	Western Ontario	-.56
70.	Brigham Young	-.59
71.	Emory	-.60
72.	Utah	-.61
73.	Rochester	-.62
74.	Georgetown	-.63
75.	SUNY-Stony Brook	-.64
76.	Massachusetts	-.70
77.	York	-.70
78.	Vanderbilt	-.71
79.	Miami	-.77
80.	Colorado	-.86
81.	Houston	-.88
82.	Queen's	-.89
83.	Oregon	-.92
84.	SUNY-Albany	-.97
85.	New Mexico	-.97
86.	Calif., Riverside	-.98
87.	Tulane	-1.02
88	Brown	-1.06
89.	Dartmouth	-1.09
90.	Colorado State	-1.10
91.	McMaster	-1.13
92.	Saskatchewan	-1.28
93.	Case Western Reserve	-1.30
94.	Notre Dame	-1.34
95.	Alabama	-1.34
96.	Guelph	-1.42
97.	Rice	-1.44
98.	Kent State	-1.77
99.	Oklahoma State	-1.93

SUMMARY OF RANK ORDER TABLES FOR UNIVERSITY LIBRARIES

The table below presents the rank for each ARL university library in each of the fourteen categories for which rank order tables are prepared. In the individual rank order tables, "group codes" are also used as an indication of the relative position of each institution. This is done because the coarser ranking provided by clustering institutions into groups (based upon ranges) more realistically describes a library's relative standing.

The table numbers in the chart below refer to the following categories:

Table 1 - Volumes in Library	Table 8 - Materials Expenditures
Table 2 - Volumes Added (Gross)	Table 9 - Materials & Binding Expenditures
Table 3 - Total Microform Holdings	Table 10 - Salaries & Wages Expenditures
Table 4 - Current Serials	Table 11 - Total Expenditures
Table 5 - Professional Staff (FTE)	Table 12 - Total Items Loaned
Table 6 - Nonprofessional Staff (FTE)	Table 13 - Total Items Borrowed
Table 7 - Total Staff (FTE)	Table 14 - Current Serials Expenditures

INSTITUTION	TABLES 1	2	3	4	5	6	7	8	9	10	11	12	13	14
Alabama	92	89	84	92	84	95	90	92	92	93	94	95	89	83
Alberta	35	26	40	78	33	9	19	25	26	21	23	68	55	59
Arizona	25	15	22	28	31	27	26	6	7	41	24	25	64	13
Arizona State	62	20	61	55	76	66	58	38	39	70	59	70	33	42
Boston	80	82	55	42	46	44	46	61	61	59	57	64	16	60
Brigham Young	63	61	85	61	43	96	39	N/A	N/A	N/A	N/A	92	54	N/A
British Columbia	34	24	5	20	17	5	11	21	21	9	12	19	15	N/A
Brown	54	95	96	79	83	83	85	89	89	89	86	90	99	95
Calif., Berkeley	4	7	32	1	6	13	3	3	4	2	3	15	8	6
Calif., Davis	58	32	37	13	44	31	38	26	25	22	22	12	58	12
Calif., Los Angeles	11	11	20	5	N/A	N/A	N/A	4	3	4	2	8	22	5
Calif., Riverside	98	96	87	80	95	84	92	80	77	74	71	97	27	91
Calif., San Diego	70	57	93	33	66	39	52	40	40	29	31	36	42	52
Calif., Santa Barbara	72	68	34	51	61	45	44	50	47	32	38	98	18	63
Case Western Reserve	75	98	99	83	49	87	83	94	94	87	91	7	51	65
Chicago	10	9	89	16	39	40	37	32	30	30	28	24	88	26
Cincinnati	83	66	71	58	47	33	35	49	52	42	41	39	9	78
Colorado	43	84	13	91	86	74	86	91	91	60	80	59	37	74
Colorado State	86	65	97	62	77	92	94	95	95	86	88	56	47	87
Columbia	6	17	10	6	8	10	8	16	16	5	7	20	1	10
Connecticut	55	52	49	72	62	75	62	65	65	55	60	38	28	69
Cornell	12	16	6	9	7	8	9	13	12	14	11	40	97	N/A
Dartmouth	69	79	81	57	94	76	91	88	88	92	92	75	70	66
Duke	19	50	90	31	25	29	28	31	32	39	36	21	85	22

N/A - Not available

INSTITUTION	TABLES 1	2	3	4	5	6	7	8	9	10	11	12	13	14
Emory	56	70	75	73	N/A	N/A	N/A	N/A	N/A	N/A	N/A	46	69	N/A
Florida	31	33	27	22	28	22	21	11	10	37	26	34	13	28
Florida State	68	59	15	82	56	86	80	34	35	84	64	83	5	85
Georgetown	85	60	88	60	58	8[illegible]	66	66	66	62	62	86	84	84
Georgia	40	22	17	21	41	34	40	27	27	53	43	22	32	18
Guelph	91	39	94	98	91	56	89	93	93	81	90	99	83	93
Harvard	1	1	11	2	1	1	1	1	1	1	1	5	30	1
Hawaii	51	43	58	25	48	77	57	52	48	44	48	81	95	56
Houston	90	97	66	85	67	57	55	71	73	65	75	80	79	58
Howard	93	56	57	86	29	54	49	35	41	31	34	96	92	80
Illinois	3	3	33	3	9	14	10	9	9	15	9	4	11	8
Indiana	15	12	69	32	15	21	12	22	22	19	18	17	34	38
Iowa	28	30	36	27	38	61	50	24	24	43	39	27	36	17
Iowa State	78	54	63	50	74	63	73	54	53	63	66	43	74	46
Johns Hopkins	27	91	64	65	59	47	59	59	64	58	50	48	6	50
Kansas	33	47	70	30	37	50	41	36	36	46	42	16	3	33
Kent State	77	77	83	97	97	93	96	96	96	95	96	28	65	94
Kentucky	50	75	12	19	40	52	47	53	54	54	56	49	10	39
Louisiana State	45	53	65	52	64	85	71	44	43	66	58	51	57	61
MIT	49	51	73	49	42	41	51	81	80	52	61	35	86	54
Maryland	67	40	42	64	30	30	23	39	38	28	33	62	94	41
Massachusetts	52	36	77	90	55	65	68	76	78	56	74	71	44	76
McGill	38	41	98	68	[illegible]6	16	22	63	59	17	27	9	25	49
McMaster	97	80	86	89	93	35	70	45	49	68	67	82	35	75
Miami	79	78	60	77	72	69	67	68	69	79	78	66	48	64
Michigan	5	14	21	8	10	6	5	7	6	8	8	31	29	3
Michigan State	23	18	62	18	35	55	34	43	42	34	37	26	49	40
Minnesota	14	28	52	12	12	25	16	23	23	10	13	1	4	15
Missouri	37	58	8	46	54	62	63	46	45	76	65	29	45	25
Nebraska	60	62	46	44	60	71	76	56	57	80	73	58	82	37
New Mexico	96	67	26	69	79	78	79	86	86	85	87	91	66	92
New York	21	21	38	38	34	26	27	37	37	27	32	45	67	29
North Carolina	24	13	39	17	16	24	24	14	15	24	21	30	46	43
Northwestern	22	34	74	35	20	36	25	29	29	2[illegible]	30	67	78	23
Notre Dame	66	93	95	81	89	89	93	85	84	94	93	89	87	88
Ohio State	17	19	29	24	19	20	15	17	20	18	15	18	19	21
Oklahoma	47	45	44	66	68	91	82	55	55	90	79	33	14	57

N/A - Not available

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Oklahoma State	84	99	79	96	92	97	95	97	97	97	97	84	62	89
Oregon	61	76	92	48	80	90	81	79	79	73	82	87	7	67
Pennsylvania	20	37	51	34	24	38	33	41	31	26	29	54	21	44
Pennsylvania State	32	46	9	39	21	11	18	28	28	20	19	41	41	24
Pittsburgh	29	31	50	76	4	79	31	57	56	35	45	11	23	79
Princeton	18	25	41	23	23	15	20	18	18	23	20	60	71	20
Purdue	65	86	68	53	87	28	42	60	62	48	51	61	60	36
Queen's	74	81	91	54	88	32	56	69	68	57	68	94	40	86
Rice	94	90	54	95	96	94	97	90	90	96	95	42	98	82
Rochester	53	63	31	93	63	80	84	72	72	83	81	37	26	55
Rutgers	30	38	35	37	18	12	17	20	19	16	17	13	52	16
SUNY Albany	99	85	25	70	70	73	87	78	82	77	83	72	17	70
SUNY Buffalo	41	44	16	45	22	46	36	48	46	40	40	32	24	32
SUNY Stony Brook	88	74	30	56	73	59	77	73	74	61	70	50	50	62
Saskatchewan	95	88	59	94	90	60	88	75	76	78	85	76	39	72
South Carolina	46	49	23	63	50	72	74	62	60	67	69	53	72	68
Southern California	36	29	47	29	27	42	30	30	33	38	35	78	93	27
Southern Illinois	57	73	14	47	51	64	48	51	51	49	47	14	75	30
Stanford	7	10	3	11	5	7	6	2	2	6	4	10	68	7
Syracuse	42	48	18	43	52	43	43	87	87	75	84	93	76	73
Temple	59	69	82	67	36	49	45	70	70	47	53	77	91	51
Tennessee	76	83	56	36	78	48	69	58	58	71	63	47	63	35
Texas	8	2	7	4	11	4	7	12	14	11	14	44	12	11
Texas A & M	81	35	28	71	81	58	65	47	50	82	72	23	20	48
Toronto	9	6	48	15	3	2	2	5	5	3	5	55	38	9
Tulane	73	94	78	87	82	82	78	83	81	91	89	65	56	81
Utah	39	42	43	59	85	81	72	82	85	72	77	79	31	90
Vanderbilt	64	92	67	74	71	67	64	84	83	88	76	88	90	53
Virginia	26	23	4	40	32	23	29	10	11	33	25	63	96	14
Virginia Polytechnic	89	27	2	41	57	70	75	33	34	69	52	73	61	47
Washington	13	4	1	14	14	17	14	19	17	13	16	2	53	2
Washington State	87	87	24	26	65	53	53	74	71	50	49	85	73	34
Washington, St. Louis	48	71	72	75	69	51	60	64	63	64	55	52	43	45
Wayne State	44	72	80	84	45	68	61	67	67	45	46	6	81	71
Western Ontario	71	55	53	N/A	53	19	32	42	44	36	44	69	59	31
Wisconsin	16	8	19	10	13	18	13	15	13	12	10	3	2	4
Yale	2	5	45	7	2	3	4	8	8	7	6	57	77	19
York	82	64	76	88	75	37	54	77	75	51	54	74	80	77

N/A - Not available

RANK ORDER TABLE 1: VOLUMES IN LIBRARY

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1-	6,000 and over	5-	2,000-2,999
2-	5,000-5,999	6-	1,000-1,999
3-	4,000-4,999	7-	under 1,000
4-	3,000-3,999		

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	10,082,663		49	MIT	1,797,623
	2	Yale	7,401,953		50	Kentucky	1,792,048
					51	Hawaii	1,736,122
2	3	Illinois	5,936,823		52	Massachusetts	1,730,872
	4	Calif., Berkeley	5,753,731		53	Rochester	1,700,000
	5	Michigan	5,234,380		54	Brown	1,671,414
	6	Columbia	5,016,460		55	Connecticut	1,657,850
					56	Emory	1,636,344
3	7	Stanford	4,694,769		57	Southern Illinois	1,630,825
	8	Texas	4,547,508		58	Calif., Davis	1,606,266
	9	Toronto	4,448,310		59	Temple	1,592,849
	10	Chicago	4,310,824		60	Nebraska	1,494,040
	11	Calif., Los Angeles	4,234,835		61	Oregon	1,474,358
	12	Cornell	4,216,915		62	Arizona State	1,468,650
					63	Brigham Young	1,464,218
4	13	Washington	3,877,238		64	Vanderbilt	1,430,289
	14	Minnesota	3,807,570		65	Purdue	1,424,896
	15	Indiana	3,759,203		66	Notre Dame	1,419,409
	16	Wisconsin	3,631,669		67	Maryland	1,403,568
	17	Ohio State	3,529,985		68	Florida State	1,393,156
	18	Princeton	3,260,396		69	Dartmouth	1,390,717
	19	Duke	3,085,654		70	Calif., San Diego	1,378,955
					71	Western Ontario	1,375,565
5	20	Pennsylvania	2,938,890		72	Calif., Santa Barbara	1,375,227
	21	New York	2,869,122		73	Tulane	1,372,405
	22	Northwestern	2,806,320		74	Queen's	1,370,670
	23	Michigan State	2,613,447		75	Case Western Reserve	1,368,366
	24	North Carolina	2,604,404		76	Tennessee	1,356,369
	25	Arizona	2,540,839		77	Kent State	1,352,092
	26	Virginia	2,431,322		78	Iowa State	1,349,909
	27	Johns Hopkins	2,321,935		79	Miami	1,343,442
	28	Iowa	2,295,266		80	Boston	1,314,742
	29	Pittsburgh	2,246,371		81	Texas A & M	1,299,644
	30	Rutgers	2,216,843		82	York	1,272,551
	31	Florida	2,162,982		83	Cincinnati	1,254,306
	32	Pennsylvania State	2,149,603		84	Oklahoma State	1,253,032
	33	Kansas	2,148,451		85	Georgetown	1,245,615
	34	British Columbia	2,107,463		86	Colorado State	1,232,923
	35	Alberta	2,066,444		87	Washington State	1,231,724
	36	Southern California	2,035,570		88	SUNY-Stony Brook	1,226,807
	37	Missouri	2,016,647		89	Virginia Polytechnic	1,226,037
					90	Houston	1,225,941
6	38	McGill	1,995,899		91	Guelph	1,154,539
	39	Utah	1,990,000		92	Alabama	1,123,802
	40	Georgia	1,985,646		93	Howard	1,116,396
	41	SUNY-Buffalo	1,936,437		94	Rice	1,034,606
	42	Syracuse	1,888,312		95	Saskatchewan	1,000,138
	43	Colorado	1,852,904				
	44	Wayne State	1,839,429				
	45	Louisiana State	1,822,626	7	96	New Mexico	999,973
	46	South Carolina	1,819,230		97	McMaster	985,742
	47	Oklahoma	1,808,276		98	Calif., Riverside	983,200
	48	Washington, St. Louis	1,798,711		99	SUNY-Albany	936,864

RANK ORDER TABLE 2: VOLUMES ADDED (GROSS)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 180,000 and over
2- 160,000-179,999
3- 140,000-159,999
4- 120,000-139,999
5- 100,000-119,999
6- 80,000- 99,999
7- 60,000- 79,999
8- 40,000- 59,999
9- under 40,000

Gp	Rank	Institution	Value
1	1	Harvard	210,448
	2	Texas	188,132
	3	Illinois	181,304
2	4	Washington	174,099
	5	Yale	173,003
	6	Toronto	171,899
	7	Calif., Berkeley	169,922
3	8	Wisconsin	158,344
	9	Chicago	144,844
	10	Stanford	141,208
4	11	Calif., Los Angeles	139,006
	12	Indiana	131,476
	13	North Carolina	129,652
	14	Michigan	129,046
5	15	Arizona	119,903
	16	Cornell	119,880
	17	Columbia	119,830
	18	Michigan State	103,284
	19	Ohio State	101,011
6	20	Arizona State	97,150
	21	New York	93,966
	22	Georgia	93,818
	23	Virginia	92,357
	24	British Columbia	92,313
	25	Princeton	90,722
	26	Alberta	90,090
	27	Virginia Polytechnic	88,847
	28	Minnesota	88,621
	29	Southern California	87,981
	30	Iowa	87,154
	31	Pittsburgh	87,013
	32	Calif., Davis	85,089
	33	Florida	84,840
	34	Northwestern	84,113
7	35	Texas A & M	78,035
	36	Massachusetts	77,987
	37	Pennsylvania	75,587
	38	Rutgers	75,109
	39	Guelph	74,992
	40	Maryland	74,427
	41	McGill	74,317
	42	Utah	73,912
	43	Hawaii	73,013
	44	SUNY-Buffalo	71,749
	45	Oklahoma	71,431
	46	Pennsylvania State	70,555
	47	Kansas	70,448
	48	Syracuse	69,118
	49	South Carolina	68,036
	50	Duke	67,742
	51	MIT	67,660
	52	Connecticut	65,179
	53	Louisiana State	64,613
	54	Iowa State	64,326
8	55	Western Ontario	59,444
	56	Howard	57,901
	57	Calif., San Diego	57,624
	58	Missouri	57,130
	59	Florida State	57,051
	60	Georgetown	56,036
	61	Brigham Young	55,811
	62	Nebraska	54,667
	63	Rochester	54,000
	64	York	53,183
	65	Colorado State	53,139
	66	Cincinnati	53,050
	67	New Mexico	52,826
	68	Calif., Santa Barbara	52,414
	69	Temple	52,258
	70	Emory	51,815
	71	Washington, St. Louis	51,166
	72	Wayne State	50,874
	73	Southern Illinois	50,850
	74	SUNY-Stony Brook	50,680
	75	Kentucky	50,486
	76	Oregon	50,394
	77	Kent State	49,633
	78	Miami	47,126
	79	Dartmouth	46,747
	80	McMaster	45,723
	81	Queen's	45,380
	82	Boston	45,177
	83	Tennessee	44,017
	84	Colorado	43,584
	85	SUNY-Albany	43,308
	86	Purdue	43,302
	87	Washington State	43,015
	88	Saskatchewan	41,948
	89	Alabama	40,189
9	90	Rice	39,786
	91	Johns Hopkins	39,547
	92	Vanderbilt	39,207
	93	Notre Dame	38,158
	94	Tulane	37,536
	95	Brown	36,691
	96	Calif., Riverside	36,150
	97	Houston	32,816
	98	Case Western Reserve	27,311
	99	Oklahoma State	24,010

RANK ORDER TABLE 3: MICROFORM HOLDINGS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1-	2,300 and over	6-	1,300-1,499
2-	2,100-2,299	7-	1,100-1,299
3-	1,900-2,099	8-	900-1,099
4-	1,700-1,899	9-	700- 899
5-	1,500-1,699	10-	under 700

Gp	Rank	Institution	Value
1	1	Washington	3,019,186
	2	Virginia Polytechnic	2,830,068
	3	Stanford	2,678,740
	4	Virginia	2,487,650
2	5	British Columbia	2,297,793
	6	Cornell	2,239,135
	7	Texas	2,211,079
	8	Missouri	2,209,010
	9	Pennsylvania State	2,198,360
	10	Columbia	2,135,332
	11	Harvard	2,101,575
3	12	Kentucky	2,010,756
	13	Colorado	1,983,890
	14	Southern Illinois	1,913,454
	15	Florida State	1,912,699
4	16	SUNY-Buffalo	1,876,285
	17	Georgia	1,859,981
	18	Syracuse	1,849,080
	19	Wisconsin	1,829,367
	20	Calif., Los Angeles	1,806,105
	21	Michigan	1,786,069
	22	Arizona	1,750,874
5	23	South Carolina	1,699,611
	24	Washington State	1,694,410
	25	SUNY-Albany	1,667,830
	26	New Mexico	1,667,770
	27	Florida	1,657,092
	28	Texas A & M	1,606,791
	29	Ohio State	1,602,962
	30	SUNY-Stony Brook	1,587,647
	31	Rochester	1,572,500
	32	Calif., Berkeley	1,569,956
	33	Illinois	1,552,446
	34	Calif., Santa Barbara	1,530,625
	35	Rutgers	1,512,086
	36	Iowa	1,502,000
6	37	Calif., Davis	1,489,430
	38	New York	1,456,577
	39	North Carolina	1,447,865
	40	Alberta	1,401,446
	41	Princeton	1,396,298
	42	Maryland	1,387,902
	43	Utah	1,386,143
	44	Oklahoma	1,303,431
7	45	Yale	1,294,923
	46	Nebraska	1,252,971
	47	Southern California	1,246,952
	48	Toronto	1,245,144
	49	Connecticut	1,245,012
	50	Pittsburgh	1,235,358
	51	Pennsylvania	1,230,767
	52	Minnesota	1,229,743
	53	Western Ontario	1,205,576
	54	Rice	1,199,193
	55	Boston	1,198,053
	56	Tennessee	1,188,383
	57	Howard	1,165,076
	58	Hawaii	1,148,925
	59	Saskatchewan	1,138,340
	60	Miami	1,120,027
	61	Arizona State	1,119,174
	62	Michigan State	1,117,363
8	63	Iowa State	1,096,094
	64	Johns Hopkins	1,089,875
	65	Louisiana State	1,073,997
	66	Houston	1,052,623
	67	Vanderbilt	1,029,383
	68	Purdue	1,019,268
	69	Indiana	980,060
	70	Kansas	979,944
	71	Cincinnati	960,357
	72	Washington, St. Louis	952,974
	73	MIT	947,593
	74	Northwestern	944,804
	75	Emory	937,880
	76	York	935,775
	77	Massachusetts	924,439
	78	Tulane	918,497
	79	Oklahoma State	910,561
	80	Wayne State	905,543
9	81	Dartmouth	860,692
	82	Temple	854,191
	83	Kent State	830,132
	84	Alabama	796,351
	85	Brigham Young	788,661
	86	McMaster	771,071
	87	Calif., Riverside	770,993
	88	Georgetown	747,752
	89	Chicago	743,893
	90	Duke	739,291
	91	Queen's	731,038
	92	Oregon	723,525
	93	Calif., San Diego	716,715
10	94	Guelph	698,970
	95	Notre Dame	639,067
	96	Brown	625,608
	97	Colorado State	536,513
	98	McGill	453,459
	99	Case Western Reserve	388,821

RANK ORDER TABLE 4: CURRENT SERIALS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1-	70,000 and over	5-	30,000-39,999
2-	60,000-69,999	6-	20,000-29,999
3-	50,000-59,999	7-	10,000-19,999
4-	40,000-49,999	8-	under 10,000

Gp	Rank	Institution	Value
1	1	Calif., Berkeley	102,199
	2	Harvard	94,000
	3	Illinois	93,913
2	4	Texas	60,000
3	5	Calif., Los Angeles	58,750
	6	Columbia	58,697
	7	Yale	57,891
	8	Michigan	56,169
	9	Cornell	55,204
	10	Wisconsin	54,083
4	11	Stanford	45,766
	12	Minnesota	45,443
	13	Calif., Davis	42,759
	14	Washington	42,753
	15	Toronto	42,244
	16	Chicago	42,121
5	17	North Carolina	37,529
	18	Michigan State	34,149
	19	Kentucky	33,866
	20	British Columbia	33,011
	21	Georgia	32,085
	22	Florida	31,221
	23	Princeton	30,231
6	24	Ohio State	29,960
	25	Hawaii	29,601
	26	Washington State	29,140
	27	Iowa	28,935
	28	Arizona	28,350
	29	Southern California	28,310
	30	Kansas	28,251
	31	Duke	27,387
	32	Indiana	26,879
	33	Calif., San Diego	26,743
	34	Pennsylvania	26,595
	35	Northwestern	25,977
	36	Tennessee	25,157
	37	Rutgers	24,475
	38	New York	24,201
	39	Pennsylvania State	23,805
	40	Virginia	23,360
	41	Virginia Polytechnic	23,304
	42	Boston	22,962
	43	Syracuse	22,221
	44	Nebraska	22,081
	45	SUNY-Buffalo	20,907
	46	Missouri	20,747
	47	Southern Illinois	20,316
	48	Oregon	20,000
7	49	MIT	19,136
	50	Iowa State	18,935
	51	Calif., Santa Barbara	18,675
	52	Louisiana State	18,578
	53	Purdue	18,465
	54	Queen's	17,947
	55	Arizona State	17,716
	56	SUNY-Stony Brook	17,635
	57	Dartmouth	17,553
	58	Cincinnati	17,509
	59	Utah	17,249
	60	Georgetown	17,201
	61	Brigham Young	17,009
	62	Colorado State	16,781
	63	South Carolina	16,727
	64	Maryland	16,481
	65	Johns Hopkins	16,449
	66	Oklahoma	16,293
	67	Temple	16,254
	68	McGill	15,729
	69	New Mexico	15,658
	70	SUNY-Albany	15,647
	71	Texas A & M	15,347
	72	Connecticut	15,308
	73	Emory	15,223
	74	Vanderbilt	15,187
	75	Washington, St. Louis	15,003
	76	Pittsburgh	14,877
	77	Miami	14,876
	78	Alberta	14,330
	79	Brown	14,145
	80	Calif., Riverside	14,010
	81	Notre Dame	13,853
	82	Florida State	13,796
	83	Case Western Reserve	13,560
	84	Wayne State	13,428
	85	Houston	13,171
	86	Howard	13,156
	87	Tulane	12,931
	88	York	12,756
	89	McMaster	12,723
	90	Massachusetts	12,715
	91	Colorado	12,690
	92	Alabama	12,511
	93	Rochester	12,000
	94	Saskatchewan	10,162
8	95	Rice	9,752
	96	Oklahoma State	9,585
	97	Kent State	8,576
	98	Guelph	8,528

Western Ontario figure not available.

RANK ORDER TABLE 5: PROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 175 and over
2- 150-174
3- 125-149
4- 100-124
5- 75- 99
6- 50- 74
7- under 50

Gp	Rank	Institution	Value
1	1	Harvard	285
2	2	Yale	170
	3	Toronto	162
	4	Pittsburgh	150
	4	Stanford	150
3	6	Calif., Berkeley	141
	7	Cornell	140
	8	Columbia	139
	8	Illinois	139
	10	Michigan	137
	11	Texas	126
4	12	Minnesota	124
	13	Wisconsin	122
	14	Washington	120
	15	Indiana	116
	16	North Carolina	108
	17	British Columbia	107
	18	Rutgers	106
	19	Ohio State	100
5	20	Northwestern	98
	20	Pennsylvania State	98
	22	SUNY-Buffalo	97
	23	Princeton	94
	24	Pennsylvania	88
	25	Duke	86
	26	McGill	85
	26	Southern California	85
	28	Florida	83
	28	Howard	83
	28	Maryland	83
	31	Arizona	81
	31	Virginia	81
	33	Alberta	80
	34	New York	79
	35	Michigan State	77
	35	Temple	77
	37	Kansas	76
6	38	Iowa	74
	39	Chicago	70
	40	Kentucky	69
	41	Georgia	68
	41	MIT	68
	43	Brigham Young	66
	43	Calif., Davis	66
	43	Wayne State	66
	46	Boston	65
	47	Cincinnati	62
	47	Hawaii	62
	49	Case Western Reserve	61
	49	South Carolina	61
	49	Southern Illinois	61
	52	Syracuse	59
	52	Western Ontario	59
	54	Missouri	58
	55	Massachusetts	57
	56	Florida State	56
	56	Virginia Polytechnic	56
	58	Georgetown	55
	58	Johns Hopkins	55
	58	Nebraska	55
	61	Calif., Santa Barbara	54
	61	Connecticut	54
	61	Rochester	54
	64	Louisiana State	51
	64	Washington State	51
	66	Calif., San Diego	50
	66	Houston	50
	66	Oklahoma	50
	66	Washington, St. Louis	50
7	70	SUNY-Albany	49
	70	Vanderbilt	49
	72	Miami	48
	72	SUNY-Stony Brook	48
	74	Iowa State	47
	74	York	47
	76	Arizona State	46
	76	Colorado State	46
	76	Tennessee	46
	79	New Mexico	45
	79	Oregon	45
	79	Texas A & M	45
	79	Tulane	45
	83	Brown	44
	84	Alabama	43
	84	Utah	43
	86	Colorado	42
	86	Purdue	42
	88	Queen's	41
	89	Notre Dame	39
	89	Saskatchewan	39
	91	Guelph	37
	91	Oklahoma State	37
	93	McMaster	36
	94	Dartmouth	35
	95	Calif., Riverside	33
	96	Rice	32
	97	Kent State	24

Figures for Emory and Calif., Los Angeles not reported in time for inclusion in table; data given in Footnotes.

RANK ORDER TABLE 6: NONPROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 400 and over
2- 350-399
3- 300-349
4- 250-299
5- 200-249
6- 150-199
7- 100-149
8- under 100

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	531		47	Johns Hopkins	137
	2	Toronto	516		48	Tennessee	136
					49	Temple	131
2	3	Yale	391		50	Kansas	130
					51	Washington, St. Louis	129
3	4	Texas	332		52	Kentucky	127
	5	British Columbia	320		52	Washington State	127
	6	Michigan	313		54	Howard	124
	7	Stanford	311		54	Michigan State	124
					56	Guelph	120
4	8	Cornell	295		56	Houston	120
	9	Alberta	290		58	Texas A & M	118
	10	Columbia	282		59	SUNY-Stony Brook	117
	11	Pennsylvania State	262		60	Saskatchewan	116
	12	Rutgers	256		61	Iowa	114
					62	Missouri	113
5	13	Calif., Berkeley	249		63	Iowa State	112
	13	Illinois	249		63	Southern Illinois	112
	15	Princeton	241		65	Massachusetts	111
	16	McGill	239		66	Arizona State	110
	17	Washington	237		66	Vanderbilt	110
	18	Wisconsin	235		66	Wayne State	110
	19	Western Ontario	216		69	Miami	108
	20	Ohio State	208		69	Virginia Polytechnic	108
	21	Indiana	206		71	Nebraska	104
	22	Florida	201		71	South Carolina	104
					73	SUNY-Albany	101
6	23	Virginia	196				
	24	North Carolina	190	8	74	Colorado	99
	25	Minnesota	184		75	Connecticut	98
	25	New York	184		75	Dartmouth	98
	27	Arizona	178		75	Hawaii	98
	27	Purdue	178		75	New Mexico	98
	29	Duke	173		75	Pittsburgh	98
	30	Maryland	172		80	Rochester	97
	31	Calif., Davis	170		80	Utah	97
	32	Queen's	168		82	Tulane	96
	33	Cincinnati	167		83	Brown	95
	34	Georgia	163		83	Calif., Riverside	95
	35	McMaster	156		85	Louisiana State	94
	36	Northwestern	153		86	Florida State	93
	37	York	152		87	Case Western Reserve	90
	38	Pennsylvania	151		88	Georgetown	87
					89	Notre Dame	85
7	39	Calif., San Diego	146		90	Oregon	84
	39	Chicago	146		91	Oklahoma	83
	39	MIT	146		92	Colorado State	72
	39	Southern California	146		93	Kent State	62
	43	Syracuse	145		94	Rice	59
	44	Boston	143		95	Alabama	57
	45	Calif., Santa Barbara	140		96	Brigham Young	53
	45	SUNY-Buffalo	140		97	Oklahoma State	50

Figures for Emory and Calif., Los Angeles not reported in time for inclusion in table; data given in Footnotes.

RANK ORDER TABLE 7: TOTAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 650 and over
2- 600-649
3- 550-599
4- 500-549
5- 450-499
6- 400-449
7- 350-399
8- 300-349
9- 250-299
10- 200-249
11- 150-199
12- under 150

Gp	Rank	Institution	Value
1	1	Harvard	943
	2	Toronto	741
2	3	Calif., Berkeley	602
3	4	Yale	593
	5	Michigan	565
	6	Stanford	560
4	7	Texas	533
	8	Columbia	521
	9	Cornell	508
	10	Illinois	507
5	11	British Columbia	487
	12	Indiana	484
	13	Wisconsin	482
	14	Washington	481
6	15	Ohio State	446
	16	Minnesota	435
	17	Rutgers	422
	18	Pennsylvania State	418
	19	Alberta	402
7	20	Princeton	394
	21	Florida	368
	22	McGill	362
	23	Maryland	356
	24	North Carolina	355
	25	Northwestern	351
8	26	Arizona	346
	27	New York	329
	28	Duke	328
	29	Virginia	327
	30	Southern California	323
	31	Pittsburgh	320
	32	Western Ontario	317
	33	Pennsylvania	309
	34	Michigan State	303
9	35	Cincinnati	293
	36	SUNY-Buffalo	291
	37	Chicago	287
	38	Calif., Davis	284
	39	Brigham Young	279
	40	Georgia	277
	41	Kansas	274
	42	Purdue	271
	43	Syracuse	270
	44	Calif., Santa Barbara	264
	45	Temple	264
	46	Boston	262
	47	Kentucky	259
	48	Southern Illinois	258
	49	Howard	250
10	50	Iowa	247
	50	MIT	247
	52	Calif., San Diego	245
	53	Washington State	241
	54	York	238
	55	Houston	233
	55	Queen's	233
	57	Hawaii	230
	58	Arizona State	226
	58	Johns Hopkins	226
	60	Washington, St. Louis	225
	61	Wayne State	218
	62	Connecticut	216
	62	Missouri	216
	64	Vanderbilt	215
	65	Texas A & M	213
	66	Georgetown	212
	66	Miami	212
	68	Massachusetts	210
	68	Tennessee	210
	70	McMaster	209
	71	Louisiana State	205
	71	Utah	205
	73	Iowa State	201
	73	South Carolina	201
11	75	Virginia Polytechnic	199
	76	Nebraska	198
	77	SUNY-Stony Brook	194
	78	Tulane	192
	79	New Mexico	189
	80	Florida State	187
	81	Oregon	184
	82	Oklahoma	183
	83	Case Western Reserve	182
	84	Rochester	181
	85	Brown	180
	86	Colorado	174
	86	SUNY-Albany	174
	88	Saskatchewan	173
	89	Guelph	170
	90	Alabama	158
	90	Dartmouth	158
	92	Calif., Riverside	150
12	93	Notre Dame	142
	94	Colorado State	138
	95	Oklahoma State	132
	96	Kent State	112
	97	Rice	105

Figures for Emory and Calif., Los Angeles not reported in time for inclusion in table; data given in Footnotes.

RANK ORDER TABLE 8: MATERIALS EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1-	3,400 and over	6-	1,900-2,199
2-	3,100-3,399	7-	1,600-1,899
3-	2,800-3,099	8-	1,300-1,599
4-	2,500-2,799	9-	1,000-1,299
5-	2,200-2,499	10-	under 1,000

Gp	Rank	Institution	Value
1	1	Harvard	5,001,716
	2	Stanford	4,043,647
2	3	Calif., Berkeley	3,391,896
	4	Calif., Los Angeles	3,367,344
	5	Toronto	3,314,473
	6	Arizona	3,195,570
	7	Michigan	3,185,344
	8	Yale	3,114,825
	9	Illinois	3,105,575
3	10	Virginia	3,031,146
	11	Florida	2,981,715
	12	Texas	2,880,062
	13	Cornell	2,858,687
	14	North Carolina	2,825,763
4	15	Wisconsin	2,797,166
	16	Columbia	2,756,222
	17	Ohio State	2,612,978
	18	Princeton	2,588,531
	19	Washington	2,587,773
	20	Rutgers	2,542,699
5	21	British Columbia	2,457,842
	22	Indiana	2,439,733
	23	Minnesota	2,309,764
	24	Iowa	2,308,660
	25	Alberta	2,276,681
	26	Calif., Davis	2,218,189
	27	Georgia	2,201,720
6	28	Pennsylvania State	2,196,853
	29	Northwestern	2,065,770
	30	Southern California	2,012,526
	31	Duke	2,010,336
	32	Chicago	1,935,783
	33	Virginia Polytechnic	1,932,501
	34	Florida State	1,932,316
7	35	Howard	1,894,321
	36	Kansas	1,893,941
	37	New York	1,823,388
	38	Arizona State	1,811,764
	39	Maryland	1,801,112
	40	Calif., San Diego	1,791,551
	41	Pennsylvania	1,769,604
	42	Western Ontario	1,756,186
	43	Michigan State	1,739,402
	44	Louisiana State	1,710,349
	45	McMaster	1,700,227
	46	Missouri	1,690,303
	47	Texas A & M	1,659,190
	48	SUNY-Buffalo	1,651,883
	49	Cincinnati	1,637,405
	50	Calif., Santa Barbara	1,633,949
	51	Southern Illinois	1,625,451
	52	Hawaii	1,609,089
8	53	Kentucky	1,591,131
	54	Iowa State	1,588,707
	55	Oklahoma	1,580,706
	56	Nebraska	1,541,332
	57	Pittsburgh	1,535,284
	58	Tennessee	1,521,950
	59	Johns Hopkins	1,520,972
	60	Purdue	1,515,934
	61	Boston	1,514,162
	62	South Carolina	1,509,066
	63	McGill	1,505,851
	64	Washington, St. Louis	1,485,884
	65	Connecticut	1,470,850
	66	Georgetown	1,437,336
	67	Wayne State	1,422,709
	68	Miami	1,395,637
	69	Queen's	1,393,874
	70	Temple	1,375,794
	71	Houston	1,346,086
	72	Rochester	1,333,000
	73	SUNY-Stony Brook	1,328,317
	74	Washington State	1,325,771
9	75	Saskatchewan	1,280,683
	76	Massachusetts	1,279,489
	77	York	1,271,024
	78	SUNY-Albany	1,252,594
	79	Oregon	1,244,319
	80	Calif., Riverside	1,227,884
	81	MIT	1,219,275
	82	Utah	1,209,641
	83	Tulane	1,208,618
	84	Vanderbilt	1,207,427
	85	Notre Dame	1,201,945
	86	New Mexico	1,176,548
	87	Syracuse	1,167,923
	88	Dartmouth	1,161,501
	89	Brown	1,136,000
	90	Rice	1,116,784
	91	Colorado	1,039,934
	92	Alabama	1,021,860
10	93	Guelph	986,671
	94	Case Western Reserve	951,442
	95	Colorado State	874,798
	96	Kent State	850,669
	97	Oklahoma State	735,946

Brigham Young figure not published.
Figure for Emory not reported in time for inclusion in table; data given in Footnotes.

RANK ORDER TABLE 9: MATERIALS AND BINDING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 3,800 and over
2- 3,400-3,799
3- 3,000-3,399
4- 2,600-2,999
5- 2,200-2,599
6- 1,800-2,199
7- 1,400-1,799
8- 1,000-1,399
9- under 1,000

Gp	Rank	Institution	Value
1	1	Harvard	5,496,178
	2	Stanford	4,289,827
2	3	Calif., Los Angeles	3,796,353
	4	Calif., Berkeley	3,779,600
	5	Toronto	3,479,353
	6	Michigan	3,450,684
	7	Arizona	3,407,691
3	8	Yale	3,372,328
	9	Illinois	3,372,321
	10	Florida	3,274,366
	11	Virginia	3,200,964
	12	Cornell	3,074,145
	13	Wisconsin	3,035,903
	14	Texas	3,005,594
4	15	North Carolina	2,993,361
	16	Columbia	2,961,757
	17	Washington	2,802,809
	18	Princeton	2,739,969
	19	Rutgers	2,702,248
	20	Ohio State	2,670,029
	21	British Columbia	2,625,116
5	22	Indiana	2,597,146
	23	Minnesota	2,535,474
	24	Iowa	2,525,400
	25	Calif., Davis	2,436,308
	26	Alberta	2,418,549
	27	Georgia	2,410,478
	28	Pennsylvania State	2,305,697
	29	Northwestern	2,201,407
6	30	Chicago	2,190,621
	31	Pennsylvania	2,186,395
	32	Duke	2,145,950
	33	Southern California	2,131,856
	34	Virginia Polytechnic	2,087,846
	35	Florida State	2,069,338
	36	Kansas	1,996,700
	37	New York	1,963,769
	38	Maryland	1,950,422
	39	Arizona State	1,950,215
	40	Calif., San Diego	1,949,785
	41	Howard	1,928,453
	42	Michigan State	1,848,324
	43	Louisiana State	1,845,689
	44	Western Ontario	1,840,967
	45	Missouri	1,821.059
	46	SUNY-Buffalo	1,810,877
7	47	Calif., Santa Barbara	1,778,770
	48	Hawaii	1,765,336
	49	McMaster	1,756,497
	50	Texas A & M	1,753,400
	51	Southern Illinois	1,729,038
	52	Cincinnati	1,721,128
	53	Iowa State	1,713,749
	54	Kentucky	1,706,967
	55	Oklahoma	1,670,382
	56	Pittsburgh	1,643,812
	57	Nebraska	1,624,308
	58	Tennessee	1,620,744
	59	McGill	1,620,291
	60	South Carolina	1,599,403
	61	Boston	1,597,424
	62	Purdue	1,596,041
	63	Washington, St. Louis	1,594,771
	64	Johns Hopkins	1,581,281
	65	Connecticut	1,560,098
	66	Georgetown	1,523,091
	67	Wayne State	1,502,709
	68	Queen's	1,484,300
	69	Miami	1,480,276
	70	Temple	1,468,353
	71	Washington State	1,432,575
	72	Rochester	1,428,000
	73	Houston	1,413,586
	74	SUNY-Stony Brook	1,403,691
8	75	York	1,370,214
	76	Saskatchewan	1,341,424
	77	Calif., Riverside	1,338,151
	78	Massachusetts	1,335,160
	79	Oregon	1,310,072
	80	MIT	1,302,775
	81	Tulane	1,295,566
	82	SUNY-Albany	1,294,594
	83	Vanderbilt	1,286,033
	84	Notre Dame	1,259,189
	85	Utah	1,256,223
	86	New Mexico	1,244,643
	87	Syracuse	1,242,730
	88	Dartmouth	1,208,699
	89	Brown	1,198,418
	90	Rice	1,170,715
	91	Colorado	1,099,847
	92	Alabama	1,095,186
	93	Guelph	1,029,847
	94	Case Western Reserve	1,016,811
9	95	Colorado State	948,615
	96	Kent State	895,647
	97	Oklahoma State	780,971

Brigham Young figure not published.
Figure for Emory not reported in time for inclusion in table; data given in Footnotes.

RANK ORDER TABLE 10: SALARIES AND WAGES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 9,000 and over
2- 8,000-8,999
3- 7,000-7,999
4- 6,000-6,999
5- 5,000-5,999
6- 4,000-4,999
7- 3,000-3,999
8- 2,000-2,999
9- 1,000-1,999

Gp	Rank	Institution	Value
1	1	Harvard	10,428,993
2	2	Calif., Berkeley	8,970,402
	3	Toronto	8,826,042
	4	Calif., Los Angeles	8,705,346
3	5	Columbia	7,514,383
	6	Stanford	7,504,597
	7	Yale	7,092,021
4	8	Michigan	6,497,574
	9	British Columbia	6,183,584
5	10	Minnesota	5,897,481
	11	Texas	5,651,570
	12	Wisconsin	5,592,551
	13	Washington	5,551,754
	14	Cornell	5,426,938
	15	Illinois	5,383,293
	16	Rutgers	5,285,716
	17	McGill	5,183,866
	18	Ohio State	5,140,470
	19	Indiana	5,032,612
6	20	Pennsylvania State	4,960,136
	21	Alberta	4,708,848
	22	Calif., Davis	4,408,212
	23	Princeton	4,345,119
	24	North Carolina	4,079,527
	25	Northwestern	4,043,361
7	26	Pennsylvania	3,997,284
	27	New York	3,847,251
	28	Maryland	3,734,862
	29	Calif., San Diego	3,710,557
	30	Chicago	3,703,690
	31	Howard	3,609,365
	32	Calif., Santa Barbara	3,559,575
	33	Virginia	3,534,827
	34	Michigan State	3,474,405
	35	Pittsburgh	3,388,232
	36	Western Ontario	3,377,459
	37	Florida	3,343,449
	38	Southern California	3,339,604
	39	Duke	3,235,199
	40	SUNY-Buffalo	3,220,783
	41	Arizona	3,198,701
	42	Cincinnati	3,152,741
	43	Iowa	3,033,352
8	44	Hawaii	2,898,177
	45	Wayne State	2,857,309
	46	Kansas	2,843,561
	47	Temple	2,799,220
	48	Purdue	2,747,547
	49	Southern Illinois	2,730,942
	50	Washington State	2,714,141
	51	York	2,667,877
	52	MIT	2,652,960
	53	Georgia	2,592,145
	54	Kentucky	2,488,371
	55	Connecticut	2,470,939
	56	Massachusetts	2,452,814
	57	Queen's	2,421,935
	58	Johns Hopkins	2,393,634
	59	Boston	2,389,731
	60	Colorado	2,374,802
	61	SUNY-Stony Brook	2,340,725
	62	Georgetown	2,257,362
	63	Iowa State	2,204,211
	64	Washington, St. Louis	2,193,932
	65	Houston	2,180,865
	66	Louisiana State	2,168,661
	67	South Carolina	2,161,646
	68	McMaster	2,155,897
	69	Virginia Polytechnic	2,154,646
	70	Arizona State	2,126,024
	71	Tennessee	2,114,837
	72	Utah	2,114,320
	73	Oregon	2,106,963
	74	Calif., Riverside	2,102,294
	75	Syracuse	2,087,600
	76	Missouri	2,076,606
	77	SUNY-Albany	2,069,776
	78	Saskatchewan	2,062,430
	79	Miami	2,051,995
	80	Nebraska	2,020,343
9	81	Guelph	1,933,212
	82	Texas A & M	1,930,063
	83	Rochester	1,925,000
	84	Florida State	1,911,403
	85	New Mexico	1,890,113
	86	Colorado State	1,884,093
	87	Case Western Reserve	1,860,366
	88	Vanderbilt	1,855,663
	89	Brown	1,820,291
	90	Oklahoma	1,789,740
	91	Tulane	1,598,583
	92	Dartmouth	1,473,822
	93	Alabama	1,464,678
	94	Notre Dame	1,443,791
	95	Kent State	1,295,620
	96	Rice	1,142,138
	97	Oklahoma State	1,114,000

Brigham Young figure not published.
Figure for Emory not reported in time for inclusion in table; data given in Footnotes.

RANK ORDER TABLE 11: TOTAL OPERATING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 12,000 and over
2- 11,000-11,999
3- 10,000-10,999
4- 9,000- 9,999
5- 8,000- 8,999
6- 7,000- 7,999
7- 6,000-6,999
8- 5,000-5,999
9- 4,000-4,999
10- 3,000-3,999
11- 2,000-2,999

Gp	Rank	Institution	Value
1	1	Harvard	17,445,634
	2	Calif., Los Angeles	14,527,706
	3	Calif., Berkeley	14,442,480
	4	Stanford	13,544,758
	5	Toronto	13,184,446
	6	Yale	12,122,483
2	7	Columbia	11,660,073
3	8	Michigan	10,915,362
	9	Illinois	10,260,367
4	10	Wisconsin	9,731,849
	11	Cornell	9,556,107
	12	British Columbia	9,489,157
	13	Minnesota	9,410,332
	14	Texas	9,373,383
5	15	Ohio State	8,985,322
	16	Washington	8,879,584
	17	Rutgers	8,708,957
	18	Indiana	8,277,979
	19	Pennsylvania State	8,082,105
6	20	Princeton	7,820,481
	21	North Carolina	7,767,773
	22	Calif., Davis	7,651,665
	23	Alberta	7,471,873
	24	Arizona	7,412,120
	25	Virginia	7,275,754
	26	Florida	7,165,885
	27	McGill	7,110,622
	28	Chicago	7,059,468
7	29	Pennsylvania	6,938,405
	30	Northwestern	6,474,282
	31	Calif., San Diégo	6,456,180
	32	New York	6,322,316
	33	Maryland	6,318,521
	34	Howard	6,162,832
	35	Southern California	6,162,165
	36	Duke	6,005,853
8	37	Michigan State	5,922,135
	38	Calif., Santa Barbara	5,913,844
	39	Iowa	5,804,607
	40	SUNY-Buffalo	5,583,467
	41	Cincinnati	5,575,272
	42	Kansas	5,477,541
	43	Georgia	5,454,490
	44	Western Ontario	5,382,333
	45	Pittsburgh	5,379,053
	46	Wayne State	5,237,112
9	47	Southern Illinois	4,975,201
	48	Hawaii	4,941,894
	49	Washington State	4,783,864
	50	Johns Hopkins	4,752,463
	51	Purdue	4,686,092
	52	Virginia Polytechnic	4,603,916
	53	Temple	4,598,657
	54	York	4,582,364
	55	Washington, St. Louis	4,577,295
	56	Kentucky	4,503,103
	57	Boston	4,485,651
	58	Louisiana State	4,463,981
	59	Arizona State	4,418,629
	60	Connecticut	4,390,809
	61	MIT	4,370,898
	62	Georgetown	4,370,332
	63	Tennessee	4,367,617
	64	Florida State	4,269,716
	65	Missouri	4,216,456
	66	Iowa State	4,203,813
	67	McMaster	4,144,184
	68	Queen's	4,118,400
	69	South Carolina	4,086,749
	70	SUNY-Stony Brook	4,046,938
	71	Calif., Riverside	4,021,413
	72	Texas A & M	4,020,014
	73	Nebraska	4,015,784
	74	Massachusetts	4,002,157
10	75	Houston	3,955,789
	76	Vanderbilt	3,897,702
	77	Utah	3,816,366
	78	Miami	3,804,822
	79	Oklahoma	3,781,786
	80	Colorado	3,706,151
	81	Rochester	3,700,000
	82	Oregon	3,668,681
	83	SUNY-Albany	3,646,576
	84	Syracuse	3,636,361
	85	Saskatchewan	3,615,209
	86	Brown	3,380,530
	87	New Mexico	3,302,027
	88	Colorado State	3,257,171
	89	Tulane	3,202,420
	90	Guelph	3,162,796
	91	Case Western Reserve	3,157,731
	92	Dartmouth	3,063,070
11	93	Notre Dame	2,878,857
	94	Alabama	2,855,023
	95	Rice	2,773,924
	96	Kent State	2,338,511
	97	Oklahoma State	2,063,108

Brigham Young figure not published.
Figure for Emory not reported in time for inclusion in table; data given in Footnotes.

RANK ORDER TABLE 12: TOTAL ITEMS LOANED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 50,000 and over
2- 45,000-49,999
3- 40,000-44,999
4- 35,000-39,999
5- 30,000-34,999
6- 25,000-29,999
7- 20,000-24,999
8- 15,000-19,999
9- 10,000-14,999
10- 5,000- 9,999
11- under 5,000

Gp	Rank	Institution	Value
1	1	Minnesota	133,049
	2	Washington	119,810
	3	Wisconsin	112,567
	4	Illinois	78,298
2	5	Harvard	46,799
	6	Wayne State	46,760
	7	Case Western Reserve	46,033
3	8	Calif., Los Angeles	42,750
4	9	McGill	36,595
5	10	Stanford	33,385
	11	Pittsburgh	32,973
	12	Calif., Davis	30,793
6	13	Rutgers	28,798
	14	Southern Illinois	27,520
	15	Calif., Berkeley	26,741
	16	Kansas	26,444
	17	Indiana	25,121
7	18	Ohio State	24,302
	19	British Columbia	24,042
	20	Columbia	23,573
	21	Duke	22,760
	22	Georgia	22,728
	23	Texas A & M	22,681
	24	Chicago	22,605
	25	Arizona	22,306
	26	Michigan State	21,775
	27	Iowa	21,166
	28	Kent State	20,022
8	29	Missouri	19,996
	30	North Carolina	19,727
	31	Michigan	19,122
	32	SUNY-Buffalo	18,933
	33	Oklahoma	18,468
	34	Florida	17,799
	35	MIT	17,726
	36	Calif., San Diego	17,535
	37	Rochester	17,500
	38	Connecticut	17,181
	39	Cincinnati	16,995
	40	Cornell	16,776
	41	Pennsylvania State	16,481
	42	Rice	16,407
	43	Iowa State	15,157
9	44	Texas	14,706
	45	New York	14,075
	46	Emory	14,026
	47	Tennessee	13,394
	48	Johns Hopkins	13,128
	49	Kentucky	12,689
	50	SUNY-Stony Brook	12,655
	51	Louisiana State	12,442
	52	Washington, St. Louis	12,427
	53	South Carolina	12,246
	54	Pennsylvania	12,183
	55	Toronto	11,954
	56	Colorado State	11,782
	57	Yale	11,687
	58	Nebraska	11,003
	59	Colorado	10,888
	60	Princeton	10,878
	61	Purdue	10,101
10	62	Maryland	9,780
	63	Virginia	9,650
	64	Boston	9,639
	65	Tulane	9,590
	66	Miami	9,349
	67	Northwestern	8,617
	68	Alberta	8,503
	69	Western Ontario	8,483
	70	Arizona State	8,440
	71	Massachusetts	8,306
	72	SUNY-Albany	8,229
	73	Virginia Polytechnic	8,179
	74	York	7,854
	75	Dartmouth	7,818
	76	Saskatchewan	7,685
	77	Temple	7,576
	78	Southern California	7,317
	79	Utah	7,298
	80	Houston	6,522
	81	Hawaii	6,369
	82	McMaster	6,266
	83	Florida State	6,168
	84	Oklahoma State	6,035
	85	Washington State	5,852
	86	Georgetown	5,643
	87	Oregon	5,207
11	88	Vanderbilt	4,875
	89	Notre Dame	4,868
	90	Brown	4,586
	91	New Mexico	4,244
	92	Brigham Young	4,242
	93	Syracuse	3,980
	94	Queen's	3,909
	95	Alabama	3,188
	96	Howard	3,180
	97	Calif., Riverside	3,161
	98	Calif., Santa Barbara	2,300
	99	Guelph	1,955

RANK ORDER TABLE 13: TOTAL ITEMS BORROWED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 13,000 and over
2- 11,000-12,999
3- 9,000-10,999
4- 7,000- 8,999
5- 5,000-6,999
6- 3,000-4,999
7- under 3,000

Gp	Rank	Institution	Value
1	1	Columbia	27,083
	2	Wisconsin	24,870
2	3	Kansas	12,844
	4	Minnesota	12,436
	5	Florida State	11,612
	6	Johns Hopkins	11,177
3	7	Oregon	10,591
	8	Calif., Berkeley	9,988
	9	Cincinnati	9,491
4	10	Kentucky	8,975
	11	Illinois	8,680
	12	Texas	8,556
	13	Florida	8,500
	14	Oklahoma	8,245
	15	British Columbia	8,175
	16	Boston	8,169
	17	SUNY-Albany	8,081
	18	Calif., Santa Barbara	8,080
	19	Ohio State	7,794
	20	Texas A & M	7,700
	21	Pennsylvania	7,678
	22	Calif., Los Angeles	7,575
	23	Pittsburgh	7,415
	24	SUNY-Buffalo	7,327
	25	McGill	7,068
	26	Rochester	7,000
5	27	Calif., Riverside	6,964
	28	Connecticut	6,903
	29	Michigan	6,881
	30	Harvard	6,738
	31	Utah	6,418
	32	Georgia	6,271
	33	Arizona State	6,249
	34	Indiana	6,224
	35	McMaster	6,146
	36	Iowa	6,088
	37	Colorado	6,078
	38	Toronto	5,908
	39	Saskatchewan	5,901
	40	Queen's	5,876
	41	Pennsylvania State	5,658
	42	Calif., San Diego	5,628
	43	Washington, St. Louis	5,435
	44	Massachusetts	5,419
	45	Missouri	5,338
	46	North Carolina	5,264
	47	Colorado State	5,150
	48	Miami	5,089
	49	Michigan State	5,019
6	50	SUNY-Stony Brook	4,990
	51	Case Western Reserve	4,826
	52	Rutgers	4,806
	53	Washington	4,728
	54	Brigham Young	4,666
	55	Alberta	4,546
	56	Tulane	4,459
	57	Louisiana State	4,434
	58	Calif., Davis	4,400
	59	Western Ontario	4,318
	60	Purdue	4,290
	61	Virginia Polytechnic	4,241
	62	Oklahoma State	4,195
	63	Tennessee	4,133
	64	Arizona	4,105
	65	Kent State	4,066
	66	New Mexico	3,949
	67	New York	3,891
	68	Stanford	3,871
	69	Emory	3,852
	70	Dartmouth	3,847
	71	Princeton	3,772
	72	South Carolina	3,726
	73	Washington State	3,716
	74	Iowa State	3,704
	75	Southern Illinois	3,652
	76	Syracuse	3,578
	77	Yale	3,525
	78	Northwestern	3,427
	79	Houston	3,336
	80	York	3,306
	81	Wayne State	3,304
	82	Nebraska	3,275
	83	Guelph	3,171
	84	Georgetown	3,126
	85	Duke	3,011
	86	MIT	3,003
7	87	Notre Dame	2,880
	88	Chicago	2,823
	89	Alabama	2,809
	90	Vanderbilt	2,758
	91	Temple	2,727
	92	Howard	2,676
	93	Southern California	2,422
	94	Maryland	2,407
	95	Hawaii	2,259
	96	Virginia	2,106
	97	Cornell	1,711
	98	Rice	1,628
	99	Brown	1,625

RANK ORDER TABLE 14: CURRENT SERIALS EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1-	1,600 and over	7-	1,000-1,099
2-	1,500-1,599	8-	900- 999
3-	1,400-1,499	9-	800- 899
4-	1,300-1,399	10-	700- 799
5-	1,200-1,299	11-	600- 699
6-	1,100-1,199	12-	under 600

Gp	Rank	Institution	Value
1	1	Harvard	2,193,964
	2	Washington	1,773,717
	3	Michigan	1,741,930
	4	Wisconsin	1,623,387
	5	Calif., Los Angeles	1,622,547
2	6	Calif., Berkeley	1,592,166
	7	Stanford	1,591,609
	8	Illinois	1,588,664
	9	Toronto	1,546,564
	10	Columbia	1,506,207
3	11	Texas	1,480,926
	12	Calif., Davis	1,410,500
4	13	Arizona	1,390,180
	14	Virginia	1,377,945
	15	Minnesota	1,357,209
	16	Rutgers	1,340,709
	17	Iowa	1,329,634
	18	Georgia	1,325,145
5	19	Yale	1,298,007
	20	Princeton	1,290,636
	21	Ohio State	1,267,786
	22	Duke	1,253,263
6	23	Northwestern	1,192,876
	24	Pennsylvania State	1,131,490
	25	Missouri	1,110,248
	26	Chicago	1,109,960
	27	Southern California	1,103,364
7	28	Florida	1,075,851
	29	New York	1,071,845
	30	Southern Illinois	1,070,355
	31	Western Ontario	1,069,011
	32	SUNY-Buffalo	1,059,796
	33	Kansas	1,033,774
	34	Washington State	1,033,190
	35	Tennessee	1,010,733
	36	Purdue	1,006,401
	37	Nebraska	1,004,202
	38	Indiana	1,000,889
8	39	Kentucky	997,575
	40	Michigan State	996,223
	41	Maryland	981,983
	42	Arizona State	967,020
	43	North Carolina	940,068
	44	Pennsylvania	936,011
	45	Washington, St. Louis	925,000
	46	Iowa State	917,295
	47	Virginia Polytechnic	904,982
	48	Texas A & M	904,190
9	49	McGill	890,371
	50	Johns Hopkins	874,312
	51	Temple	864,250
	52	Calif., San Diego	852,634
	53	Vanderbilt	837,916
	54	MIT	834,307
	55	Rochester	827,000
	56	Hawaii	820,850
	57	Oklahoma	817,871
	58	Houston	815,894
	59	Alberta	815,414
	60	Boston	812,636
	61	Louisiana State	809,645
	62	SUNY-Stony Brook	809,322
	63	Calif., Santa Barbara	807,046
10	64	Miami	799,727
	65	Case Western Reserve	776,485
	66	Dartmouth	762,622
	67	Oregon	762,375
	68	South Carolina	756,826
	69	Connecticut	742,913
	70	SUNY-Albany	738,229
	71	Wayne State	737,036
	72	Saskatchewan	718,624
	73	Syracuse	700,753
	74	Colorado	700,602
11	75	McMaster	699,480
	76	Massachusetts	693,122
	77	York	683,927
	78	Cincinnati	683,396
	79	Pittsburgh	670,880
	80	Howard	662,024
	81	Tulane	657,872
	82	Rice	651,984
	83	Alabama	641,472
	84	Georgetown	640,702
	85	Florida State	634,216
	86	Queen's	632,731
	87	Colorado State	617,072
	88	Notre Dame	610,030
12	89	Oklahoma State	563,123
	90	Utah	561,073
	91	Calif., Riverside	554,076
	92	New Mexico	534,247
	93	Guelph	472,264
	94	Kent State	325,475
	95	Brown	246,125

Brigham Young figure not published; figures for Cornell and British Columbia not available.
Figure for Emory not reported in time for inclusion in table; data given in Footnotes.

ARL STATISTICS 1979-80

Instructions for Completion of the Questionnaire

1. Definitions of the statistical categories used in this questionnaire can be found in Library Statistics: A Handbook of Concepts, Definitions and Terminology (Chicago: American Library Association, 1966).

2. All figures should be rounded to the nearest whole number.

3. In a university which includes both main and branch campuses, an effort should be made to report figures for the main campus only. (The National Center for Education Statistics in its Higher Education General Information Survey describes a branch campus as one "located in a community different from that in which its parent institution is located ... beyond a reasonable commuting distance from the main campus ...") If figures for libraries located on branch campuses are reported, please provide an explanatory footnote.

4. Questions 1-5. Use the ALA definition for "Volume" as noted in instruction 1 above. Include duplicates and bound volumes of periodicals. Exclude microforms, nonprint materials, uncataloged items, and government documents unless cataloged. (Government document volumes classed separately may be included if cataloged.)

5. Question 6. Include duplicate subscriptions and govenment document serials. Because of the number of questions raised regarding the counting of serials, we call to your attention the definition to be used for this survey.

   > Publications constituting one issue in a continuous series under the same title published at regular or irregular intervals, over an indefinite period, individual issues in the series being numbered consecutively or each issue being dated. Newspapers as well as publications appearing annually or less frequently are included in the definition.

6. Questions 12-15 - Personnel. Report the number of staff in filled positions, or positions which are only temporarily vacant. Include staff hired for special projects and grants, but provide an explanatory footnote indicating the number of such staff. The number of FTE staff should be determined on the basis of the length of the work week in the reporting library.

7. Question 12. Since the criteria for determining professional status vary among libraries, there is no attempt to define the term "professional." Each library should report those staff members it considers professional, including, when appropriate, staff who are not librarians in the strict sense of the term, such as computer experts, systems analysts, budget officers, etc.

8. Questions 16-22 - Expenditures. Report all expenditures, regardless of whether the funds come from the regular library budget or from special funds, such as research grants. When special project or grant funds are included, please provide a footnote indicating the amount of such funds. Include federal funds for work study students.

Canadian libraries should report expenditures in both Canadian and U.S. dollars. To determine figures in U.S. dollars, divide Canadian dollar amounts by 1.1689, the average monthly noon exchange rate published in the Bank of Canada Review for the period July 1979 - June 1980.

9. Question 21. Report net expenditures after any cost recovery. Exclude expenditures for buildings and maintenance, and for fringe benefits.

10. Questions 23-24 - Ph.D. Degrees. Please note that only the number of Ph.D. degrees are to be counted. Statistics on all other advanced degrees (e.g., D.Ed., D.P.A., M.D., J.D.) are not required for this survey.

11. Question 24. For the purposes of this report, Ph.D. fields are equivalent to the several hundred specific discipline specialties enumerated in the form used by the U.S. Department of Eduation in collecting statistics on higher education. The official title of the form is: "Higher Education General Information Survey, Degrees and Other Formal Awards." It is designated as NCES Form 2300-2.1A. Although the HEGIS form requests figures for all doctoral degrees, only fields in which Ph.D.s are awarded should be reported on the ARL questionnaire.

12. Questions 27-30 - Enrollment. Please use figures reported to the U.S. Department of Education on the form entitled "Higher Education General Information Survey, Fall Enrollment in Institutions of Higher Education." It is designated as NCES Form 2300-2.3. The line and column numbers on the HEGIS form for each category are noted on the questionnaire.

13. Reporting libraries are urged to record in the footnote section any circumstances that would clarify the figures submitted, e.g., the inclusion of branch campus libraries. Explanatory footnotes will be included with the published statistics.

ARL STATISTICS QUESTIONNAIRE, 1979-80

Reporting Library ______________________________

Questionnaire Completed by (Name) ______________________________

Phone Number ____________________ Date Returned to ARL ____________________

COLLECTIONS (See instructions 4-5)

1. Volumes held June 30, 1979 (Exclude microforms and govt. docs.) (Record figure reported last year or footnote adjusted figure) __________
2. Volumes added during year - Gross (Exclude microforms and govt. docs.) __________
3. Volumes withdrawn during year (Exclude microforms and govt. docs.) __________
4. Volumes added during year - Net (Subtract line 3 from line 2) __________
5. Volumes held June 30, 1980 (Add line 1 to line 4) __________
6. Number of current serials, including periodicals, received (See instruction 5) __________
7. Reels of microfilm held June 30, 1980 __________
8. Number of microcards held June 30, 1980 __________
9. Number of microprint sheets held June 30, 1980 __________
10. Number of microfiche sheets held June 30, 1980 __________
11. Total microform units held June 30, 1980 (Add lines 7, 8, 9, 10) __________

PERSONNEL (See instructions 6-7) (Round figures to nearest whole number)

12. Number of professional staff, FTE __________
13. Number of nonprofessional staff, FTE __________
14. Number of student assistants, FTE __________
15. Total FTE staff (Add lines 12, 13, 14) __________

ARL Statistics Questionnaire - Page 2

	Dollars Canadian (Canadian libraries only)	Dollars U.S. (Divide Canadian dollars by 1.1689)
EXPENDITURES (See instructions 8-9)		
16. Books, serials and other library materials		
17. Current serials including periodicals (See instruction 5) (Subtotal of 16)		
18. Binding		
19. Total library materials and binding (Add lines 16, 18)		
20. Total salaries and wages, including student assistants' wages (omit fringe benefits)		
21. Other operating expenditures (See instruction 9)		
22. Total library expenditures (Add lines 19, 20, 21)		

Ph.D. DEGREES (See instructions 10-11)

23. Number of Ph.D.s awarded ____________

24. Number of fields in which Ph.D.s can be awarded ____________

INTERLIBRARY LOANS

25. Items loaned: Originals ____________; Photocopies ____________; Total ____________

26. Items borrowed: Originals ____________; Photocopies ____________; Total ____________

ENROLLMENT - FALL 1979 (See instruction 12)

27. Total full-time students (line 14, columns 13 and 14) ____________

28. Total FTE part-time students (line 28, column 15) ____________

29. Total full-time graduate students (line 11, columns 13 and 14) ____________

30. Total FTE part-time graduate students (line 25, column 15) ____________

FOOTNOTES FOR ARL STATISTICS, 1979-80

(Please compare with footnotes from surveys of previous years.)

1. Law Library statistics are included.

   ☐ Yes ☐ No ☐ We do not have a Law Library.

2. Medical Library statistics are included.

   ☐ Yes ☐ No ☐ We do not have a Medical Library.

3. Figures include statistics for main campus only.

   ☐ Yes ☐ No ☐ We have only one campus.

4. Other libraries not included:

   ____

   ____

   ____

5. Basis of volume count is: ☐ Physical ☐ Bibliographical

6. Fringe benefits are included in expenditures for salaries and wages. (Question 20)

   ☐ Yes ☐ No

7. Other comments:

   ____

   ____

   ____

   ____

   ____

Please return completed questionnaire to the ARL Office by October 1, 1980

FOOTNOTES TO ARL STATISTICS, 1979-80

Institution	Category from Main Table	Notes
ALABAMA		Figures are as of September 30, 1980.
	(1)	1978-79 figure included government documents; 1979-80 figure excludes uncataloged government documents.
	(4)	Adjusted figure after inventory and weeding of microform collection.
		Graduate student enrollment includes the School of Law and the Health Science Program.
ALBERTA		Excludes Extension Library, Boreal Institute Library, St. Joseph's College Library, College Universitaire, St. Jean, and Map Library.
		Part-time enrollment figures are not FTE.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $2,661,212; (13) $953,138; (14) $165,830; (15) $287,042; (16) $5,504,173; (17) $402,658; (18) $8,733,873.
ARIZONA		Law and Medical libraries included for the first time since 1970-71.
	(18)	Includes $34,124 in grant funds.
		Microcard count includes microprint sheets.
ARIZONA STATE	(1)	1978-79 figure revised.
BOSTON		Includes the Theology Library.
		Number of degrees awarded includes graduate degrees other than the Ph.D.
BOSTON PUBLIC	(7)	Does not include 900,200 microfilm frames duplicated for other libraries.
		Microcard count includes 40,620 aperture cards.

Institution	Category from Main Table	Notes
BRIGHAM YOUNG		Figures are as of August 31, 1980.
	(5)	Figure is decreased from last year, because an automated program eliminated erroneous receiving records.
	(12-18)	Reported, but not published.
	(19, 20)	Numbers revised from last year as a result of ten individuals being reclassified.
		Number of Ph.D. degrees reported for 1978-79 included all doctorates awarded, not just Ph.D.s.
BRITISH COLUMBIA		Figures are as of March 31, 1980.
	(5)	Large increase from 1978-79 is due to the addition of many uncataloged government-issued serials to the current serials file during the year.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $2,872,972; (13) N/A; (14) $195,527; (15) $3,068,499; (16) $7,227,991; (17) $795,386; (18) $11,091,876.
	(17)	Excludes photocopying costs (Can. $252,588) offset by revenues.
	(20, 21)	Includes staff funded from grants.
BROWN		Excludes John Carter Brown Library.
CALIF., BERKELEY	(19-22)	Personnel data for 1979-80 not available in time for publication. Figures reported are for 1978-79.
CALIF., DAVIS		Includes Sacramento Medical Center Library.
		Part-time enrollment figures are estimates.
CALIF., LOS ANGELES	(1)	1978-79 figure revised.
	(1-3)	Initial volume count in 1940's was bibliographical; subsequent counts of added volumes have been physical.

Institution	Category from Main Table	Notes
CALIF., LOS ANGELES (cont'd)	(5)	Does not include 18,323 newspaper volumes and 50,642 reels of newspapers on microfilm.
	(19-22)	Not available in time for inclusion in data tables. Figures are, in FTE, 140 professionals, 203 nonprofessionals, 241 student assistants, 584 total.
		Number of Ph.D.s awarded and graduate students reported include Ed.D. degrees.
		Microcard count includes microfiche and microprint sheets.
CALIF., RIVERSIDE	(5)	1978-79 figure revised.
		Microfiche count includes microcards and microprint sheets.
CASE WESTERN RESERVE	(1-3)	Count is physical for some libraries and bibliographical for others.
CENTER FOR RES. LIBS.	(5)	Estimated figure.
		Microfiche count includes microcards.
CHICAGO	(1-3)	Includes microforms.
	(4)	Basis of microform count is bibliographical, not physical.
CINCINNATI		Excludes Clermont General and Technical College.
	(1-4)	Because of variant practices in departmental libraries, count is both physical and bibliographical.
COLORADO STATE	(1)	Includs 4,385 volumes not previously counted or reported.
	(16)	Includes fringe benefits.
COLUMBIA		All doctoral degrees reported.
CONNECTICUT		Previous reports included branch campus libraries in Hartford, Groton, Stamford, Torrington, and Waterbury. Statistics for these libraries have been omitted in this year's report.

Institution	Category from Main Table	Notes
CORNELL		Excludes data for Medical College Library. (These data were included in previous reports of volumes held.) Includes Annex Library storage facility.
	(16)	Includes $169,521 in federal work study funds.
	(19-22)	Includes 14.8 FTE professional, 26.4 FTE nonprofessional, and 3.7 FTE student assistant staff paid from funds for grants, contracts, and special projects.
DARTMOUTH	(1)	Includes government documents.
	(1-3)	Count is physical for monographs and bibliographical for serials.
		Microfiche and microprint holdings were transposed in 1978-79 report.
		Part-time enrollments are number of students, not FTE.
DUKE		Microfiche count includes microcards and microprint sheets.
EMORY	(5)	Excludes corporate annual reports totaling 2,500.
	(12-22)	Personnel and expenditure data not reported in time for inclusion in data tables. Figures are: (12) 1,418,792; (13) 737,776; (14) 108,189; (15) 1,526,981; (16) 1,876,791; (17) 480,392; (18) 3,884,164; (19) 56; (20) 89; (21) 35; (22) 180.
		Microfiche count includes microcards and microprint sheets.
FLORIDA		Microform count does not include 3,030 Ultrafiche.
FLORIDA STATE		Excludes Research Development School Library.
	(1)	Excludes 770,288 documents and 125,272 maps.
GEORGETOWN		Excludes Center for Population Research (2,000 volumes).

Institution	Category from Main Table	Notes
GEORGETOWN (cont'd)	(1-5)	Includes non-print materials.
	(15)	Does not include materials and binding funds of $39,605 funded separately by the Woodstock Theological Center for the Woodstock Theological Library.
	(17)	Library computer costs of $54,869 are not included as they are not charged to the Library's budget.
GUELPH	(1)	Government publications have been included, as in previous reports, as cataloged items. Guelph provides complete access through its integrated on-line catalog to all government publications.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,153,320; (13) $552,029; (14) $50,468; (15) $1,203,788; (16) $2,259,732; (17) $233,473; (18) $3,696,993.
	(17)	Includes cost of computer operations in the amount of Can. $88,205 (maintenance of minicomputer and terminals $41,964 and charges for use of University's main computer $46,241).
HARVARD		Includes research institutions in District of Columbia, Texas, and Italy.
	(18)	Separate figure for expenditures from grants and special projects not available. Expenditures do not include fringe benefits ($1,779,998), building and maintenance charged to library budgets ($2,018,553), cost-recovery items ($950,820). Total reported expenses including these items: $22,195,005.
HAWAII		Excludes Industrial Relations Library, Hawaii Institute of Geophysics Library, and School of Public Health Reference Collection, all not under university library administration.
HOUSTON		Does not include libraries at Clear Lake Campus, Downtown College, and Victoria Campus. Previous reports included these campuses.

Institution	Category from Main Table	Notes
HOUSTON (cont'd)	(16)	Federal work study contribution is included in this figure. It was not included in 1978-79 report.
	(18)	Includes $34,625 for special projects.
HOWARD		Excludes some departmental and institute libraries.
		There are sizeable increases in collections and expenditures due to a 34% increase in the 1979-80 budget over the previous year.
	(1)	1978-79 figure revised.
	(4)	Microfilm and microcard counts are up by 58% and 400% respectively. This has resulted from a systematic inventory of the microfilm holdings and from a first-time report on microcard holdings by the Law Library.
		Part-time enrollments are numbers of students, not FTE.
INDIANA		Figures are reported for the Bloomington campus only. In previous years figures were reported in addition for the the six regional campuses and the Indianapolis campuses.
		System-wide figures for all campuses of the University, comparable to those reported in previous years, are: (1) 5,120,887; (2) 209,945; (3) 166,762; (4) N/A; (5) 45,653; (6) 20,720; (7) 25,090; (8) 45,810; (9) 11,244; (10) 11,232; (11) 22,476; (12) $3,930,037; (13) $1,934,148; (14) $259,677; (15) $4,189,714; (16) $7,166,368; (17) $987,292; (18) $12,343,374; (19) 176; (20) 293; (21) 209; (22) 678.
	(12-18)	Includes $214,599 for salaries and $107,426 associated with Title II-C and other grants. Also includes $300,000 in private foundation grants to the Lilly Rare Books Library and the University's matching grant to the Lilly Library of $240,000 (used for materials).

Institution	Category from Main Table	Notes
INDIANA (cont'd)	(19-22)	Includes 4 FTE professionals and 7.5 FTE nonprofessionals working on a Title II-C grant.
IOWA	(12)	Includes $12,293 of special grant funds including federal funds.
JOHN CRERAR		Collections data include Crerar Library only; all other figures include all services, grant and contract operations. All data represent the latest figures available and are for the period October 1, 1978 - September 30, 1979.
	(1-4)	Includes government documents.
JOHNS HOPKINS		Excludes School of Advanced International Studies, Bologna, Italy.
		Microcard count includes microprint sheets.
KANSAS	(1)	1978-79 figure revised.
KENT STATE	(1)	Figure revised to account for 14,465 items counted twice in 1978-79 report.
		Microfiche count includes microcards and microprint sheets.
		Number of Ph.D.s awarded taken from Ohio Board of Regents report instead of HEGIS report.
KENTUCKY		Excludes community colleges.
	(19)	Includes 4.25 FTE staff hired for special projects and grants.
	(20)	Includes 6 FTE staff hired for special projects and grants and 2 FTE that are cost recovered.
	(21)	Includes 4.2 FTE student assistants hired for special projects and grants.
LINDA HALL		Holdings are as of December 31, 1979.
	(17)	Excludes, as part of buildings and grounds maintenance, contract expenses such as security guards, for an added figure of $193,000.

Institution	Category from Main Table	Notes
LOUISIANA STATE		Veterinary Medicine Library included.
	(1)	Includes bound government documents but excludes all unbound documents.
	(5)	Excludes government document periodicals.
McGILL	(1)	1978-79 figure revised.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,760,190; (13) $1,040,755; (14) $133,769; (15) $1,893,959; (16) 6,059,421; (17) 358,227; (18) $8,311,607.
		Microcard count includes microprint sheets.
McMASTER	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,987,395; (13) $817,622; (14) $65,775; (15) $2,053,170; (16) $2,520,028; (17) $270,940; (18) $4,844,138.
MARYLAND		College of Library and Information Services data are included for collections and expenditures, but not for personnel.
	(16, 21)	Expenditures for federally funded work study students are not included but these students are included in the calculation of FTE student assistants.
	(18)	Includes $110,096 of special project or grant funds.
	(22)	Includes 1 FTE professional and 3.5 FTE nonprofessionals for special projects or grants.
		Microfiche count includes microcards and microprint sheets.
MASSACHUSETTS	(16)	Includes $100,215 in work study funds for students and $26,110 from a federal grant.
MIAMI	(16)	Excludes Director's salary.
		Microfiche count includes microcards and microprint sheets.

Institution	Category from Main Table	Notes
MICHIGAN		Excludes Dearborn Campus Library and the University of Michigan, Flint Library.
	(1)	Includes government documents.
		Microfiche count includes microcards and microprint sheets.
MICHIGAN STATE	(1)	1978-79 figure revised.
		Microcard count includes microfiche.
MINNESOTA	(1)	Includes 36,417 previously unreported volumes.
MISSOURI	(1)	1978-79 figure revised.
NAT. AGRIC. LIB.		U.S.D.A. field libraries not included.
		Figures are as of September 30, 1980.
	(16)	Includes fringe benefits.
	(18)	Does not include certain non-library computer costs administered by technical information systems of which the NAL is a component.
NAT. LIB. OF CANADA		Figures are as of March 31, 1980.
	(2)	Adjusted downward to conform to definitions.
	(4)	Figure is lower than actual holdings because of some unreported government documents collections.
	(12-18)	Expenditures reported in Canadian dollars were: (12) \$900,440; (13) \$258,122; (14) \$48,742; (15) \$949,181; (16) 9,100,281; (17) \$4,580,008; (18) \$14,629,470.
NAT. LIB. OF MED.	(12-22)	Statistics on personnel and expenditures reflect only the Library Operations component of the National Library of Medicine, namely: Reference Services Division, Bibliographic Services Division, Technical Services Division, History of Medicine Division, Medical

Institution	Category from Main Table	Notes
NAT. LIB. of MED. (cont'd)		Subject Headings, and the Office of the Associate Director for Library Operations.
		Microfiche count is a title count.
NEWBERRY	(5)	Figure reported for 1978-79 included periodicals only.
	(6)	25 of these originals loaned for exhibition at other institutions.
	(12)	Includes $8,182 in grant funds.
	(14)	Conservation laboratory expenses included.
	(16)	Includes $280,730 in grant funds.
	(17)	Includes $549,246 in grant funds.
	(19, 20)	Includes 12 FTE professional and 4 FTE nonprofessional staff working on grant projects.
NEW MEXICO		Excludes Gallup Branch and several extension centers.
		Microfiche count includes microcards.
NEW YORK	(1)	1978-79 figure revised.
	(13)	Does not include Dental Library.
NEW YORK PUBLIC	(5)	Beginning in 1976 serial count comprised both serials and periodicals. Prior to 1976 only periodical titles were reported. Includes current and dead titles; no separate count kept of current cataloged titles.
		Microcard count includes microprint sheets.
NEW YORK STATE	(1-3)	Includes government documents.
	(5)	Estimated figure.
	(19, 20, 22)	Filled positions.
NORTHWESTERN		Dental Library statistics are included in all figures.
	(1)	1978-79 figure revised.
	(12)	Includes $71,087 of project expenses.

Institution	Category from Main Table	Notes
NORTHWESTERN (cont'd)	(16)	Includes $117,029 of project staff salaries and $212,080 of federally funded work study wages (80% of first $1,100 earned).
	(18)	Includes $253,729 of project expenses and $212,080 of federally funded work study wages.
	(22)	Includes 4 professional, 3 nonprofessional, and 1 student project staff.
NOTRE DAME	(4)	Does not include microforms in various departmental collections. Microprint sheet count includes microcards.
OHIO STATE		Excludes regional campuses.
	(7)	1978-79 figure revised.
	(16)	Includes $76,266 in Bindery salaries.
	(19)	Includes .5 FTE employed on grant funds.
OKLAHOMA	(1)	1978-79 figure revised.
OKLAHOMA STATE		Excludes OSU Technical Institute in Oklahoma City and OSU School of Technical Training in Okmulgee.
	(19)	Includes one person hired for a special project.
OREGON	(5)	Estimated figure.
PENNSYLVANIA	(1)	1978-79 figure corrected on the basis of a departmental library inventory.
PENNSYLVANIA STATE		Excludes Capitol Campus at Middletown, Pennsylvania. Includes main campus and branches at Allentown, Altoona, Beaver, Berks, Delaware Co., DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Ogontz, Schuylkill, Scranton, Shenango Valley, Wilkes-Barre, York, Behrend College and Radnor Graduate Center.
	(17)	Includes $208,000 partial payment on computer upgrade.

Institution	Category from Main Table	Notes
PENNSYLVANIA STATE (cont'd)		Microcard count includes microfiche.
PITTSBURGH		Excludes 4 regional campus libraries: Bradford, Greensburg, Johnstown and Titusville. Previous reports included these campuses.
	(1)	Government documents are classified by government classification schemes and are included in volume count.
	(19)	Count is based upon the university's definition of professional.
PRINCETON	(19, 20, 22)	Includes 3 FTE professional and 16 FTE nonprofessional temporary positions.
QUEEN'S		Excludes Library of the Industrial Relations Centre.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,629,300; (13) $739,600; (14) $105,700; (15) $1,735,000; (16) $2,831,000; (17) $248,000; (18) $4,814,000.
RICE	(1)	During 1979-80 all departmental libraries and special collections were placed under the aegis of the Fondren Library. The volume count reflects this reorganization.
	(8)	Includes material loaned through R.I.C.E.
	(16)	Includes $11,233 of student work study funds.
RUTGERS		Figures are for the entire system which includes two law libraries, services to a non-Rutgers medical school, colleges and professional schools in Camden, Newark, and New Brunswick.
SASKATCHEWAN		Excludes Theological College libraries on campus that are not part of the library system.
		Microfiche count includes microcards and microprint sheets.

Institution	Category from Main Table	Notes
SMITHSONIAN	(1)	Figure based on recent estimate.
		Figures are for October 1, 1979 - September 30, 1980.
		Excludes Hirshhorn Museum and Sculpture Garden, Woodrow Wilson International Center for Scholars, and Freer Gallery of Art.
	(12-18)	Excludes National Collection of Fine Arts and National Portrait Gallery.
SOUTH CAROLINA	(16, 22)	Includes FTE staff paid by Title II-C Grant: 1 professional, 1 non-professional, and 2 students.
	(18)	Includes $51,536 of Title II-C funds.
SOUTHERN CALIF.		Includes the Andrus Gerontology Center Library and the Hancock Library of Biology and Oceanography. Does not include the Safety and Systems Management Library.
	(16)	Includes $123,514 from grant funds.
	(17)	Includes $124,687 from grant funds.
	(19)	Includes 1.5 FTE funded by a II-C grant.
		Number of Ph.D.s awarded is 1978-79 figure. Number of Ph.D. fields is corrected from previous year.
SOUTHERN ILLINOIS		Excludes Center for Dewey Studies, Papers of Ulysses S. Grant, Instructional Design Faculty of Learning Resources Service, School of Medicine Library (Springfield). The School of Law Library is not administratively part of Library Affairs, but is a library within the SIU-Carbondale system, under the administration of one President. The Medical Library has been included in these statistics previously, but is excluded from this 1979-80 report since it is not located on the main campus.

Institution	Category from Main Table	Notes
SOUTHERN ILLINOIS (cont'd)	(1)	Adjusted figure. Medical Library subtotal (54,212) removed; Morris Library subtotal decreased by 3,805; Law Library subtotal increased by 358.
STANFORD		Microfiche count includes microcards and microprint sheets.
SUNY, ALBANY	(1)	1978-79 figure revised.
	(12)	Includes $3,963 in HEA Title II-A grant support.
	(21)	Excludes 48 FTE students from work study programs.
SUNY, BUFFALO		All figures are as of March 31, 1980.
SUNY, STONY BROOK		Excludes the Library of the Stony Brook Institute for the Advanced Study of World Religions, housed in the Main Library Building but not officially part of the University.
		Figures are as of March 31, 1980.
	(5)	Includes document serials not previously counted.
SYRACUSE		Excludes Utica College.
TEMPLE		Excludes Instructional Materials; Journalism; Health, Physical Education, Recreation, and Dance Libraries; and other departmental collections.
	(12)	Includes $3,714 in grant funds.
	(16)	Includes $77,947 in grant funds and $55,992 in work study funds.
	(17)	Includes $86,351 in grant funds.
	(19, 20, 22)	Includes 1 FTE professional and 2 FTE nonprofessional positions paid from grant funds.
TENNESSEE		Excludes University of Tennessee Space Institute, Tullahoma, and Law Library which became autonomous July 1, 1979.

Institution	Category from Main Table	Notes
TENNESSEE (cont'd)	(1)	Excludes 120,230 volumes in Law Library; Law holdings included in previous reports.
		Ph.D.s awarded includes 12 degrees that could be Ed.D.
		Microfiche count includes microcards and microprint sheets.
TEXAS		All figures are as of August 31, 1980, and include the General Libraries, Law Library, and the Humanities Research Center.
	(5)	Estimated figure.
	(15)	Includes expenditures of $2,085,459 by the General Libraries, $420,135 by the Law Library, and $500,000 by the Humanities Research Center.
	(16)	Includes Title II-C, Ethnic Heritage, and federal work study salary amounts.
	(22)	Includes staff hired on grant funds.
TEXAS A & M	(1-4)	Holdings are as of August 31, 1980.
	(1-3)	Includes government documents.
	(18)	Includes $30,278 in grant funds.
TORONTO		Includes only the libraries of the university within the President's budget; excludes the libraries of the federated and affiliated institutions.
	(1)	Includes government documents, some of which are cataloged.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $3,874,288; (13) $1,807,779; (14) $192,728; (15)$4,067,016; (16) $10,316,760; (17) $1,027,523; (18) $15,411,299.
TULANE	(1)	1978-79 figure revised.
		Microfiche count includes microcards and microprint sheets.
UTAH	(1, 2)	Estimated figures.
	(19-22)	Figures are as of July 1, 1979.

Institution	Category from Main Table	Notes
VANDERBILT		Variation in figures from last year largely due to new status as Vanderbilt University Library. Scarritt College is no longer a part of the system and its statistics are excluded in this year's report.
	(18)	Includes $579,781 in special project/grant funds.
	(20)	Includes 4 FTE staff for special projects and grants.
		Microcards included in count of microprint sheets.
VIRGINIA POLY.		Microcard count includes microprint sheets.
WASHINGTON	(1, 5)	1978-79 figures revised.
		Microcard count includes microprint sheets.
WASHINGTON STATE	(16)	Includes $478,948 for Instructional Media Services.
	(19)	Includes 4 FTE for Instructional Media Services and .1 FTE grant appointment.
	(20)	Includes 20 FTE for Instructional Media Services and .5 FTE grant appointment.
	(21)	Includes 14 FTE for Instructional Media Services and 15 FTE work study students.
WASHINGTON, ST. LOUIS	(1)	1978-79 figure revised.
	(13)	Estimated figure.
WAYNE STATE	(15)	Includes $4,379 of special project or grant funds.
	(16)	Includes $229,490 of special project or grant funds.
	(17)	Includes $321,424 of special project or grant funds.
	(22)	Includes FTE staff on special projects or grants: 9 professional; 5 non-professional; 2 student assistants.

Institution	Category from Main Table	Notes
WESTERN ONTARIO		Excludes libraries of 3 affiliated colleges, School of Library and Information Science, libraries operated within single university departments.
	(1)	1978-79 figure revised.
	(1-4)	Holdings are as of April 30, 1980.
	(5)	Most recent figure available is for 1976-77: 11,698 titles.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $2,052,806; (13) $1,249,567; (14) $99,101; (15) $2,151,907; (16) $3,947,912; (17) $191,591; (18) $6,291,410.
WISCONSIN	(1-5)	Holdings for the Land Tenure Center have been included for the first time this year.
YALE	(7, 10)	Estimated figures.
	(16)	Includes $395,993 from special project grants.
	(17)	Includes $181,791 from special project grants.
	(18)	Total expenditures exclude fringe benefits ($1,102,248), utility costs ($790,768), building and grounds maintenance ($715,729), and central university assessments ($502,862). The total reported Library expenditures exclusive of capital costs were $15,234,090.
	(22)	Includes 29 positions on special project grants.
YORK	(1)	Does not include sound recordings, audiovisual materials, and maps.
	(12-18)	Expenditures reported in Canadian dollars were: (12) $1,485,700; (13) $799,443; (14) $115,943; (15) $1,601,643; (16) $3,118,482; (17) $636,200; (18) $5,356,325.
		Statistical information on enrollment is in fiscal full-time equivalents. This year information was available on part-time students.
		Microfiche count includes microcards and microprint sheets.

ARL STATISTICAL COMPILATIONS

1. ARL Statistics

Published annually. Formerly Academic Library Statistics; title changed with 1974-75 edition.

a. 1963-64 to date.

Current issues available from the Association. When out-of-print, this publication may be ordered from:

Eric Document Reproduction Service
P.O. Box 190
Arlington, Virginia 22210

b. 1919-20 to 1962-63.

Compiled by Princeton University Library and available from:

Xerox University Microfilms
300 North Zeeb Road
Ann Arbor, Michigan 48106

1) 1944-45 to 1962-63. Special Film No. S-338.

Published as "Princeton University Library Statistics."

2) 1919-20 to 1943-44. AG 1-OP30634.

Originally published in 1947 under title: College and University Library Statistics.

2. Machine Readable Statistics, 1962-63 to 1978-79.

Compiled by the Committee on ARL Statistics. Includes ARL annual statistics plus data on university enrollments, expenditures, federal support, and Ph.D.'s awarded from non-ARL sources and not included in the printed ARL Statistics.

a. 1600 b.p.i., 9-track magnetic tape. Cost: $40.00. Available from:

Kendon L. Stubbs
Alderman Library
University of Virginia
Charlottesville, Virginia 22901

b. Reproduction of formatted printout. To be published by the Association in 1981.

c. Annual updates of the machine-readable statistics on punch cards are anticipated.

3. The ARL Library Index and Quantitative Relationships in the ARL. 1981.

A detailed description of the index developed as a summary indicator of relative ARL library size, prepared by Kendon Stubbs for the Committee on ARL Statistics. Available from the Association (members, $2.50, nonmembers, $5.00; prepaid).

4. ARL Annual Salary Survey.

Published annually since 1967-68. Current issues available from the Association. When out-of-print, this publication may be ordered from:

Eric Document Reproduction Service
P.O. Box 190
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